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细胞生物学系列产品

梦

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01 Mycoplasma

TransDetect[®] Luciferase Mycoplasma Detection Kit TransDetect[®] PCR Mycoplasma Detection Kit TransSafe[™] Mycoplasma Elimination Reagent (TransMyco Plus) Kit TransSafe[™] Mycoplasma Prevention Reagent

Cell Culture and Transfection

TransSerum[®] EQ Fetal Bovine Serum TransIntro[®] EL Transfection Reagent TransIntro[®] PL Transfection Reagent

08 Cell Detection

Cell Isolation

Human Peripheral Blood Lymphocyte Isolation Separation Solution **Cell Viability Detection** TransDetect® Cell Counting Kit (CCK)

TransDetect[®] Cell LIVE/DEAD Viability/Cytotoxicity Detection Kit

Cell Proliferation Detection

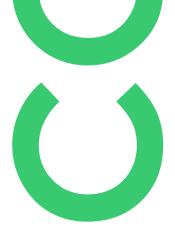
TransDetect[®] EdU Imaging Kits TransDetect[®] EdU Flow Cytometry Kits

Cell Apoptosis Detection

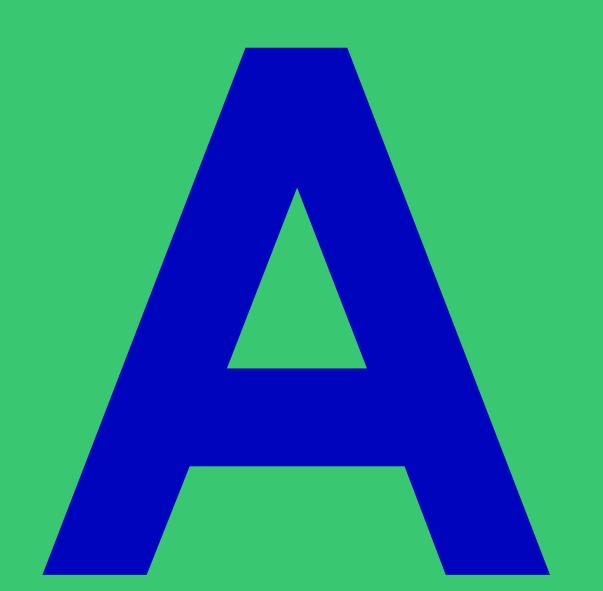
TransDetect[®] Annexin V-FITC/PI Cell Apoptosis Detection Kit TransDetect[®] Annexin V-EGFP/PI Cell Apoptosis Detection Kit TransDetect[®] Annexin V-PE/7-AAD Cell Apoptosis Detection Kit TransDetect[®] Annexin V-PE/TransDG Cell Apoptosis Detection Kit TransDetect[®] In Situ Click TUNEL Imaging Kit-488 Fluorophore

Luciferase Reporter Assay

TransDetect[®] Single-Luciferase (Firefly) Reporter Assay Kit TransDetect[®] Single-Luciferase (Renilla) Reporter Assay Kit TransDetect[®] Double-Luciferase Reporter Assay Kit

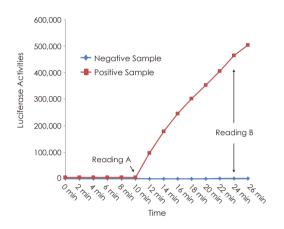


Mycoplasma



TransDetect[®] Luciferase Mycoplasma Detection Kit (FM301)

This product is designed using an enzyme unique to mycoplasma. This enzyme degrades MycoDetect Substrate and converts ADP to ATP. Luciferase catalyzes oxidation of luciferin to produce bioluminescence in the presence of ATP. Cell cultures can be characterized for the presence of mycoplasma contamination by detecting bioluminescence. As this assay can only detect bioactive mycoplasma, the results will be more accurate than that of the PCR assay. The method has high sensitivity, simple operation and time saving.



	TransGen	Company L
Original Sample	+	+
1:5 dilution	+	+
1:25 dilution	+	+
1:125 dilution	+	+/-
1:625 dilution	+/-	-
1:3125 dilution	-	-
Negative control	-	-

+ +/-

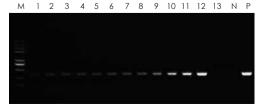
Sample contaminated with mycoplasma Need to check and verify Samples not contaminated with mycoplasma

TransDetect[®] PCR Mycoplasma Detection Kit (FM311)

This product detects the presence of mycoplasma contamination in biological materials such as cultured cells by PCR method. Highly specific primers have been designed to amplify a fragment of 16S rRNA coding DNA that is conserved across all commonly-known mycoplasma species. The kit includes an optimized supermix and primer, ultrapure water and positive control template. Using this kit, cell culture supernatants can be tested directly without DNA extraction. The kit provides a very easy-to-use, simple, fast (within 2 hours), specific and sensitive PCR-based mycoplasma detection method.

- High sensitivity: Able to detect as low as 20 copies of mycoplasma genome.
- High specificity: Only detect mycoplasma DNA, not eukaryotic or bacterial DNA.
- Easy to use: No need to extract genomic DNA, suitable for the detection of a large number of cell samples.
- Positive control and negative control to ensure the accuracy of PCR test results.





Sensitivity of mycoplasma detection by PCR

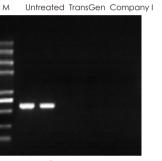
M: Trans2K[®] Plus II DNA Marker

1: 20 copies of mycoplasma DNA 2: 100 copies of mycoplasma DNA 3: 1:1000 diluted cell culture medium 4: 1:800 diluted cell culture medium 5: 1:400 diluted cell culture medium 6: 1:200 diluted cell culture medium 7: 1:100 diluted cell culture medium 8: 1:50 diluted cell culture medium 9: 1:20 diluted cell culture medium 10: 1:10 diluted cell culture medium 11: 1:5 diluted cell culture medium 12: Undiluted cell culture medium 13: Diluent N: Negative control P: Positive control

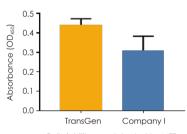
TransSafe[™] Mycoplasma Elimination Reagent (TransMyco Plus) Kit

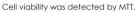
This product contains two types of antibiotic components to effectively eliminate mycoplasma contamination. The first type interferes with protein expression of mycoplasma while the second type interferes with DNA replication of mycoplasma. This product has minimum impact on eukaryotic cells with lower cytotoxicity to maintain high cell viability.

- High mycoplasma removal efficiency
- Active at low working concentration. Low cytotoxicity. Suitable for a wide range of cell types
- Easy to use. Add to the culture medium directly.



M: Trans2K[®] Plus II DNA Marker Mycoplasma removal efficiency was determined by PCR.



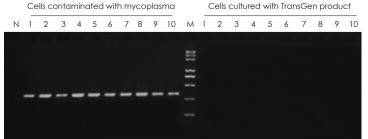


TransSafeTM Mycoplasma Prevention Reagent (FM501)

This product is a mixture of three mycoplasma antibiotics including macrolides, tetracyclines and fluoroquinolone derivatives, which can effectively interfere with protein expression and DNA replication of mycoplasma. This product can effectively prevent mycoplasma contamination during cell culture process, and can also prevent common gram-positive and gram-negative bacteria. It can be used as a better substitute of common penicillin and streptomycin antibiotics in daily cell culture, with low concentration and almost no cytotoxicity.

- Maximum preventive effect on mycoplasma contamination
- Active at low working concentration. Low cytotoxicity. Suitable for a wide range of cell types.
- Easy to use. Add to the culture medium directly.
- An alternative to Penicillin-Streptomyci with wide range of prevention from common grampositive and gram-negative bacteria.



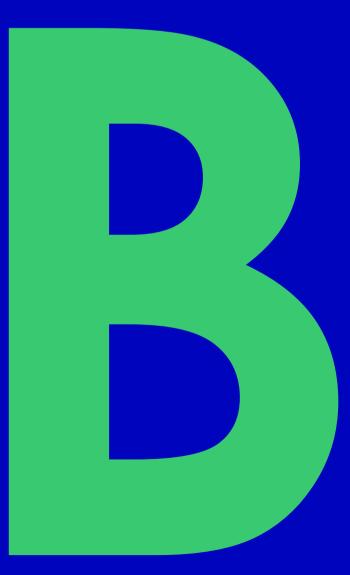


3: Hep G2 4: MCF-7 5: A549 6: K562 7: SP2/0 8: CHO 9: BHK-21 10: Neuro-2a

M: Trans2K[®] Plus II DNA Marker N: Negative control 1: HeLa 2: HEK-293

Preventive effect on mycoplasma contamination determined by PCR

Cell Culture and Transfection



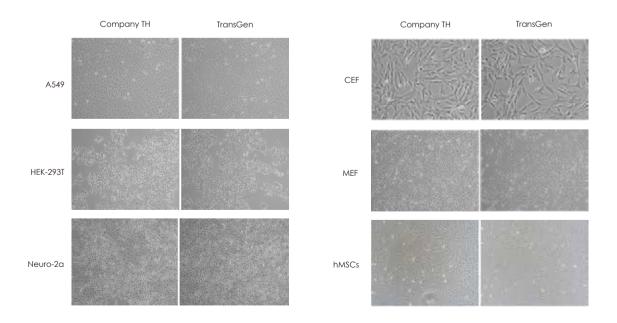
TransSerum[®] EQ Fetal Bovine Serum (FS201)

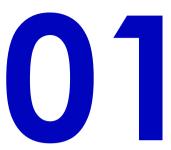
- Processed from Australian healthy fetal bovine blood as raw material. Triple 0.1 micron filtration.
- No virus contamination. Negative Mycoplasma. Low endotoxin level.
- Cultured cells grow fast with short doubling time and high cloning efficiency.
- Suitable for the culture of various types of cells such as mesenchymal stem cells.

Successfully cultured cell types with TransSerum® EQ Fetal Bovine Serum

5637	CEK	HEK-293T	Marc 145	OV45	Sp2/0	HEK-293A	NS-1
7721	CHO-K1	HeLa	MCF7	P815	STO	NIH/3T3-L1	PhoenixA
A2780	COS-1	Hep G2	MDA-MB-231	PANC-1	SW480	Ba-F3	PK136
A549	COS-7	HL-60	MEF	PC-12	SW620	BHK	SGC7901
B16-F10 BEL-7402 BHK21 BGC-823 C3H/10T ¹ /2 C6 Caco-2 CEF	DF-1 DLD-1 EC109 EJ GLC-82 H9c2 HCT 116 HEK-293	HT-29 hUC-MSC Huh7 HUVEC Jurkat K-562 L929 LS 174T	MGC803 MIA PaCa-2 MKN-28 MKN-45 MRC-5 Neuro-2a NIH3T3 NRK	PK15 PT67 RAW264.7 Sf9 SGC-7901 SH-SY5Y SMMC-7721 SK-OV-3	T24 TE-1 THP-1 U87 U937 Vero WEHI-3B WI38	BTC CNE-1 MDCK MDBK HTB-72 GK1.5 CRL-5908 CRL-5807 U251	LT-12 PANC-02 HRPTEpiC AT II Chicken mesenchymal stem cells Goat luteal cell Primary porcine endothelial cells Fin cell of grouper

Effect of TransSerum[®] EQ Fetal Bovine Serum on different cell cultures





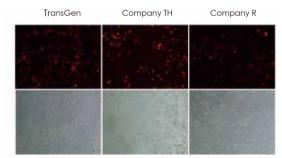
TransIntroTM EL Transfection Reagent (FT201)

- High transfection efficiency: Improve the transfection efficiency of a variety of difficult-to-transfect cells.
- Low cytotoxicity: Minimum effect on cellular physiological processes.
- Simple operation: No need to change the medium after transfection, tolerance with serum and antibiotics.
- Broad range of applications: Applicable for both DNA and RNA.

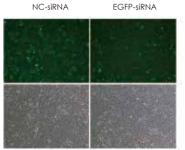
Successfully transfected cell types with TransIntro[™] EL Transfection Reagent



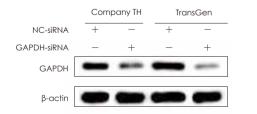
A549	COS-1	Hep G2	MEF	
B16-F10	DLD-1	HL-60	MIA PaCa-2	PANC-1
BHK-21				PT67
BTC	HCT-116	K562	Neuro-2a	SGC-7901
	HEK-293	L929	NIH/3T3	
C2C12CEF	HEK-293T	NRK	P815	SH-SY5Y
СНО				Porcine epithelial granulosa cells
CEF	HeLa	Vero	U2OS	Bovine fibroblasts
	COS-7	STO	MARC-145	
MCF-7		1		Pilose antler stem cells

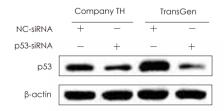


Transfected with DNA (HeLa)



Co-transfected with DNA and siRNA (HEK-293)





siRNA transfection effect with HEK-293 cells detected by Western Blot

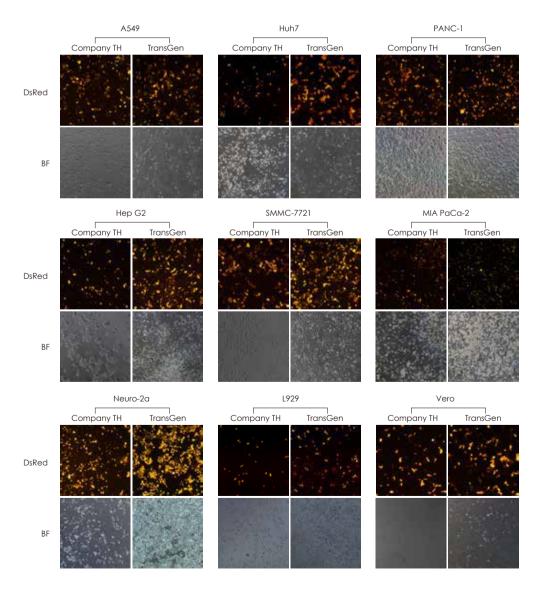
TransIntro[®] PL Transfection Reagent (FT301)

- Highly efficient and stable transfection for tumor cell lines, such as lung cancer, colorectal cancer, liver cancer, pancreatic cancer, facilitating the establishment of stable and reliable cell models.
- Low cytotoxicity and minimum effect on cellular physiological processes.
- Tolerance with antibiotics.

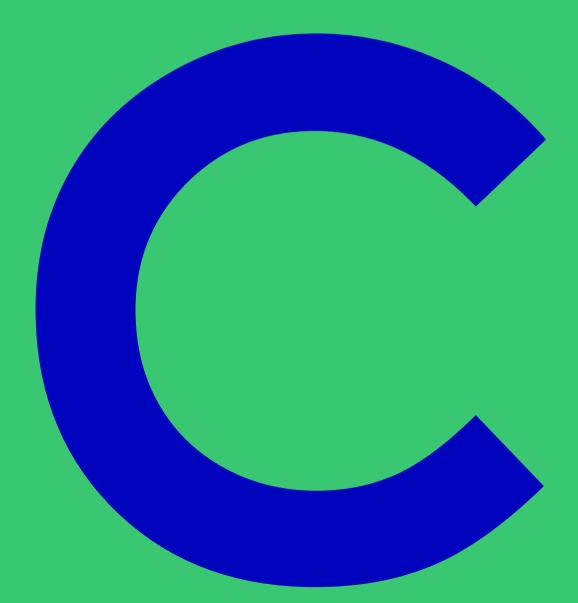
Successfully transfected cell types with TransIntro® PL Transfection Reagent



Tumor cell lines		Neural cell lines	Other cell lines		Primary cell lines	
A549	HCT 116	MCF-7	Neuro-2a	BHK21	NIH3T3	HUVEC
B16-F10	Huh7	MIA PaCa-2	SH-SY5Y	СНО	Vero	MEF
DLD-1	HT-29	PANC-1		HEK-293	L929	МСМ
HeLa	SGC-7901	SMMC-7721		HEK-293T	Marc 145	
Hep G2	SW480			BTC		



Cell Detection



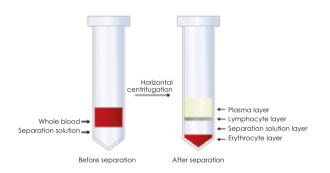
Cell Separation

Human Peripheral Blood Lymphocyte Separation Solution (FB102)

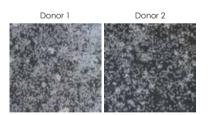
- Osmotic molar concentration is similar to that of human peripheral blood cells.
- \bullet The number of isolated lymphocytes is more than 1×10^6 cells /mL whole blood.
- The lymphocyte viability after separation is above 95%
- This product is ready-to-use, and the lymphocytes separated under aseptic conditions can be used for in vitro culture and immunological detection.



Separation schematic diagram



Good cell morphology



The isolated lymphocytes using TransGen product showed good cell morphology.

Cell number and cell viability of isolated lymphocytes are high.

Testing index	Donor 1	Donor 2	Donor3	Donor 4	Donor 5
Cell number of isolated lymphocytes / ml whole blood	1.51×10 ⁶	1.78×10 ⁶	1.12×10 ⁶	1.33×10 ⁶	1.5×10 ⁶
Cell viability of isolated lymphocytes	98.22%	98.59%	97.08%	98.41%	99.28%

Using TransGen product, the number of isolated lymphocytes is more than 1×10^{6} cells /mL whole blood and the lymphocyte viability after separation is above 95%.

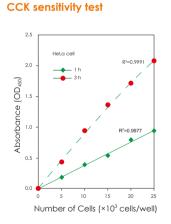
Cell Viability Detection



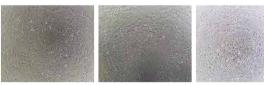
TransDetect[®] Cell Counting Kit (CCK) (FC101)

Designed for cell proliferation assays as well as cytotoxicity assays by utilizing a watersoluble tetrazolium salt. The faster the cell proliferation, the lower cytotoxicity and the more cells, the darker the color. The color development has a good linear relationship with the number of cells.

- Fast detection and high sensitivity. Broad linear range.
- · Low cytotoxicity.
- Good stability and high repeatability.



Extremely low cytotoxicity of CCK





3 hours incubation

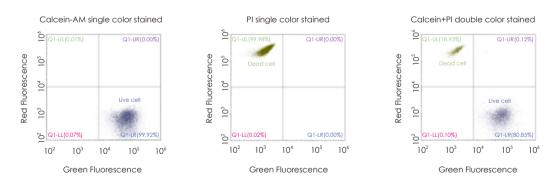
6 hours incubation

24 hours incubation

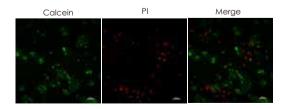


TransDetect[®] Cell LIVE/DEAD Viability/ Cytotoxicity Detection Kit (FC301)

- Simple operation, high specificity of fluorescence
- Low cytotoxicity
- Quantification or sorting can be performed by flow cytometry



The HeLa living cells and the fixed permeabilized dead cells were mixed at a ratio of 4:1, and the results were analyzed by flow cytometry after double staining.



Fluorescence microscopy results of double stained Hep G2 cells

Cell Proliferation Detection

01

TransDetect[®] EdU Imaging Kits (FU101/FU111/FU121/FU131)

The kit employs a nucleoside analog to thymidine-EdU(5-ethynyl-2'-deoxyuridine) for detection of cell proliferation ability. During DNA replication, EdU can be inserted into the newly synthesized DNA double-stranded structure, followed by labeling with fluorophores by click reaction. Cell proliferation ability is detected by this rapid and sensitive method which demonstrates the activity of DNA replication in the S phase of the cell cycle based on fluorescence intensity. Compared with traditional BrdU detection method, it is easy to operate, no need of additional steps such as antibody labeling, and has high sensitivity and specificity. It is suitable for experiments such as drug screening, cell proliferation assay, and cytotoxicity assay.

- Easy to use, no antibodies required
- High sensitivity and specificity
- Broad range of applications



TransDetect[®] EdU Flow Cytometry Kits (FU201/FU211/FU221/FU231)

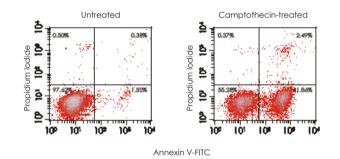
The kit employs a nucleoside analog to thymidine-EdU(5-ethynyl-2'-deoxyuridine) for detection of cell proliferation ability. During DNA replication, EdU can be inserted into the newly synthesized DNA double-stranded structure, followed by labeling with fluorophores by click reaction. Cell proliferation ability is detected by this rapid and sensitive method based on flow cytometry which demonstrates the activity of DNA replication in the S phase of the cell cycle. Compared with traditional BrdU detection method, it is easy to operate, no need of additional steps such as antibody labeling, and has high sensitivity and specificity. It is suitable for experiments such as drug screening, cell proliferation assay, and cytotoxicity assay.

- Easy to use, no antibodies required
- High sensitivity and specificity
- Broad range of applications

Cell Apoptosis Detection

TransDetect[®] Annexin V-FITC/PI Cell Apoptosis Detection Kit (FA101)

- With Annexin V-FITC as a probe, apoptotic adherent cells and suspension cells can be detected by flow cytometry or fluorescence microscopy.
- The combination of Annexin V-FITC and PI staining allows differentiation among different stages of apoptotic cells.

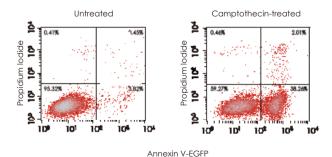


Flow cytometry results of apoptosis in Jurkat T lymphoma cells induced by Camptothecin

TransDetect[®] Annexin V-EGFP/PI Cell Apoptosis Detection Kit (FA111)



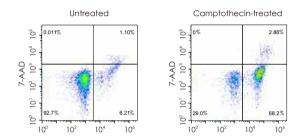
- With Annexin V-EGFP as a probe, apoptotic adherent cells and suspension cells can be detected by flow cytometry or fluorescence microscopy.
- The combination of Annexin V- EGFP and PI staining allows differentiation among different stages of apoptotic cells.



Flow cytometry results of apoptosis in Jurkat T lymphoma cells induced by Camptothecin

TransDetect[®] Annexin V-PE/7-AAD Cell Apoptosis Detection Kit (FA121)

- With Annexin V-PE as a probe, apoptotic adherent cells and suspension cells can be detected by flow cytometry or fluorescence microscopy.
- The combination of Annexin V-PE and 7-AAD staining allows differentiation among different stages of apoptotic cells.

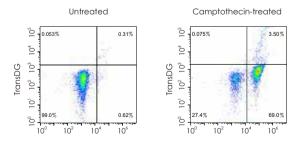




Flow cytometry results of apoptosis in Jurkat T lymphoma cells induced by Camptothecin

TransDetect[®] Annexin V-PE/TransDG Cell Apoptosis Detection Kit (FA131)

- With Annexin V-PE as a probe, apoptotic adherent cells and suspension cells can be detected by flow cytometry or fluorescence microscopy.
- The combination of Annexin V-PE and TransDG staining allows differentiation among different stages of apoptotic cells.



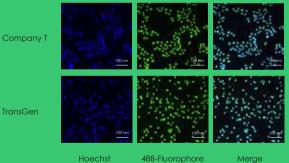


Flow cytometry results of apoptosis in Jurkat T lymphoma cells induced by Camptothecin



TransDetect[®] In Situ Click TUNEL Imaging Kit-488 Fluorophore (FA301)

- Low toxicity, enabling by elimination of highly toxic organic arsenic compounds in the buffer on which the traditional TUNEL reaction relys.
- High sensitivity and specificity.
- Simple and fast operation
- Applicable for detecting different cell or tissue samples



488-Fluorophore

After Hela cells were treated with DNase I, the fluorescence imaging results of apoptosis were detected by Company T and TransGen products respectively.

Luciferase Reporter Assay

TransDetect[®] Single-Luciferase (Firefly) Reporter Assay Kit (FR101)

TransDetect[®] Single-Luciferase (Renilla) Reporter Assay Kit

(FR111)

TransDetect[®] Double-Luciferase Reporter Assay Kit (FR201)

The activity of firefly luciferase reporter gene was detected with luciferin as the substrate, and the activity of *Renilla* luciferase reporter gene was detected with coelenterin as the substrate.

Rapid detection

• Wide detection range

High sensitivity
No interference with cellular endogenous activity



Mycoplasma

Product Name	Cat. No.	Specifications
TransDetect® Luciferase Mycoplasma Detection Kit	FM301-01	25 rxns
	FM301-02	50 rxns
TransDetect® PCR Mycoplasma Detection Kit	FM311-01	100 rxns
TransSafe™Mycoplasma Elimination Reagent (TransMyco Plus) Kit	FM421-01	10 mL
Indrissale Mycopiasina Elimination Reagent (Indrismyco Pios) Kit	FM421-02	20 mL
TransSafe™ Mycoplasma Prevention Reagent	FM501-01	1 mL
	FM501-02	5 mL

Cell Culture and Transfection

Product Name	Cat. No.	Specifications
TransSerum [®] EQ Fetal Bovine Serum	FS201-02	500 mL
TransSerum [®] FQ Fetal Bovine Serum	FS301-02	500 mL
TransIntro® EL Transfection Reagent	FT201-01	0.75 mL
Iransiniro El Iransiection Reageni	FT201-02	2×0.75 mL
TransIntro® PL Transfection Reagent	FT301-01	0.75 mL
Iransiniro PL Iransiection Reageni	FT301-02	2×0.75 mL
TransIntro® EL/PL Transfection Reagent	FT231-02	0.75 mL+0.75 mL

Cell Detection

Product Name	Cat. No.	Specifications
RBC Lysis Buffer (1×)	FB101-01	100 mL
Human Peripheral Blood Lymphocyte Separation Solution	FB102-02	200 mL
	FC101-01	1 mL
	FC101-02	5 mL
TransDetect [®] Cell Counting Kit (CCK)	FC101-03	2×5 mL
	FC101-04	6×5 mL
TransDetect® Cell LIVE/DEAD Viability/Cytotoxicity Detection Kit	FC301-01	100 rxns
TransDetect® EdU Imaging Kit-488 Fluorophore	FU101-01	50 rxns
TransDetect [®] EdU Imaging Kit-555 Fluorophore	FU111-01	50 rxns
TransDetect [®] EdU Imaging Kit-594 Fluorophore	FU121-01	50 rxns
TransDetect® EdU Imaging Kit-647 Fluorophore	FU131-01	50 rxns
TransDetect [®] EdU Flow Cytometry Kit-488 Fluorophore	FU201-01	50 rxns
TransDetect [®] EdU Flow Cytometry Kit-555 Fluorophore	FU211-01	50 rxns
TransDetect [®] EdU Flow Cytometry Kit-594 Fluorophore	FU221-01	50 rxns
TransDetect [®] EdU Flow Cytometry Kit-647 Fluorophore	FU231-01	50 rxns
	FA101-01	25 rxns
TransDetect [®] Annexin V-FITC/PI Cell Apoptosis Detection Kit	FA101-02	50 rxns
TransDetect® Annexin V-EGFP/PI Cell Apoptosis Detection Kit	FA111-01	25 rxns
	FA111-02	50 rxns
TransDetect® Annexin V-PE/7-AAD Cell Apoptosis Detection Kit	FA121-01	25 rxns
	FA121-02	50 rxns
TransDetect® Annexin V-PE/TransDG Cell Apoptosis Detection Kit	FA131-01	25 rxns
Transperect Annexin V-PerinansbG Cell Apoptosis Detection Kit	FA131-02	50 rxns
TransDetect® Cell LIVE/DEAD Viability/Cytotoxicity Detection Kit	FC301-01	100 rxns
TransDetect® In Situ Click TUNEL Imaging Kit-488 Fluorophore	FA301-01	10 rxns
Indrisderect in site click tonel imaging kit-466 Floorophore	FA301-02	50 rxns
TransDetect® In Situ Click TUNEL Imaging Kit-555 Fluorophore	FA311-01	10 rxns
hansberect in site click toket imaging kit-555 filotophore	FA311-02	50 rxns
TransDetect® In Situ Click TUNEL Imaging Kit-594 Fluorophore	FA321-01	10 rxns
hansberect in site click tonel imaging kit-374 Floorophore	FA321-02	50 rxns
TransDetect® Single-Luciferase (Firefly) Reporter Assay Kit	FR101-01	50 rxns
	FR101-02	200 rxns
TransDetect® Single-Luciferase (Renilla) Reporter Assay Kit	FR111-01	50 rxns
יוטרושטיפופטי אוושופ-בטכוופוטגפ (גפווווע) גפאטוופו אגעע גוו	FR111-02	200 rxns
TransDetect® Double-Luciferase Reporter Assay Kit	FR201-01	50 rxns
	FR201-02	200 rxns



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