

# ProteinFind® Anti-CD63 Mouse Monoclonal Antibody

Please read the datasheet carefully prior to use.

**Cat. No.** HE904

**Version No.** Version 2.0

**Storage:** PBS (pH7.4), 0.05% ProClin 300, 50% Glycerol; at -20°C for two years, avoid repeated freeze-thawing.

## Description

CD63, also known as platelet glycoprotein 40 (P1tgp40) or melanoma antigen 491 (ME491), is a widely expressed protein localized in the endosomal system and cell surface, and it is mainly found in late endosomes/multivesicles (MVBs) and lysosomes<sup>[1]</sup>. CD63 is associated with vesicle transport and the occurrence and metastasis of various tumors. In ovarian cancer, low expression of CD63 have been found to be associated with tumor metastasis<sup>[2]</sup>. In lung adenocarcinoma, low expression of CD63 is associated with tumor metastasis and poor prognosis<sup>[3]</sup>. And it also has been found that CD63 expression is negatively correlated with tumor invasion and metastasis in breast cancer and colon cancer<sup>[4,5]</sup>. This product is the mouse anti-human CD63 monoclonal antibody, which is used for the specific detection of human CD63 by WB, IF and FC.

**Species Reactivity:** Human (the results of species reactivity were determined by WB experiment).

**Clone Number:** Trans-1D8

**Antibody Subtype:** Mouse IgG1

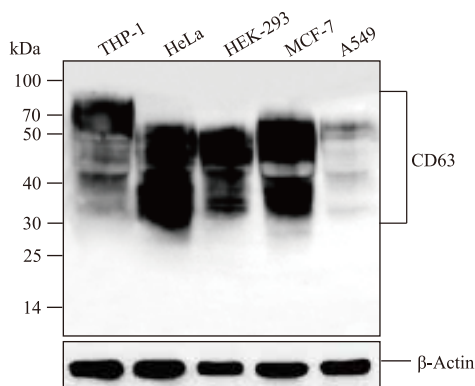
## Immunogen

- Recombinant human CD63 partial extracellular domain
- Entrez Gene ID: 967
- UniProt ID: P08962

## Applicable Experiments and Dilution

- WB: 1:300 dilution is recommended.
- IF: 1:100 dilution is recommended.
- FC: 1:100 dilution is recommended.

**Positive Control Cell Line:** HEK-293 cells, HeLa cells



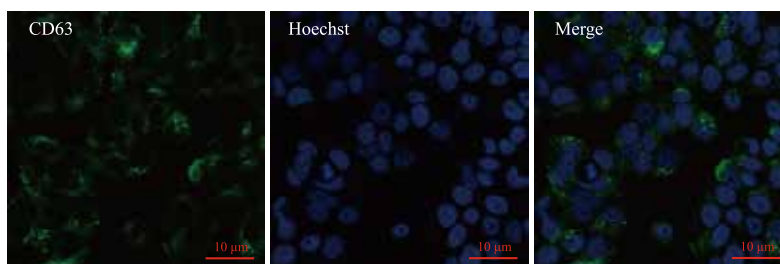
WB: ProteinFind® Anti-CD63 Mouse Monoclonal Antibody was used to detect the expression of CD63 in THP-1, HeLa, HEK-293, MCF-7 and A549 positive cells.

Dilution ratio of primary antibody: 1:300

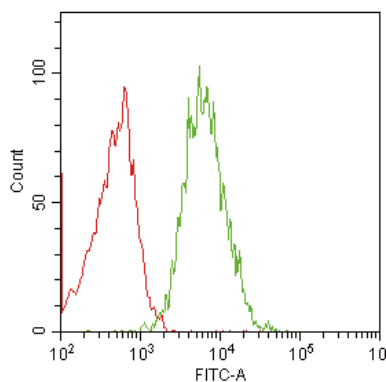
Predicted molecular weight: 26 kDa

Actual molecular weight: 30-85 kDa





IF: *ProteinFind*<sup>®</sup> Anti-CD63 Mouse Monoclonal Antibody (green) for detection of CD63 localization in MCF-7 cells.  
Hoechst is used to label the nucleus (blue).  
Dilution ratio of primary antibody: 1:100



FC: *ProteinFind*<sup>®</sup> Anti-CD63 Mouse Monoclonal Antibody (green) for FC detection of MCF-7 cells.  
Negative control: Mouse IgG1 Isotype Control (red)  
Dilution ratio of primary antibody: 1:100

## References

- [1] Pols MS, Klumperman J. Trafficking and function of the tetraspanin CD63 [J]. *Exp Cell Res.* 2009, 315(9): 1584-92.
- [2] Zhijun X, Shulan Z, Zhuo Z. Expression and significance of the protein and mRNA of metastasis suppressor gene ME491/CD63 and integrin alpha5 in ovarian cancer tissues [J]. *Eur J Gynaecol Oncol.* 2007, 28(3): 179-83.
- [3] Kwon MS, Shin SH, Yim SH, et al. CD63 as a biomarker for predicting the clinical outcomes in adenocarcinoma of lung [J]. *Lung Cancer.* 2007, 57(1): 46-53.
- [4] Sauer G, Kurzeder C, Grundmann R, et al. Expression of tetraspanin adaptor proteins below defined threshold values is associated with in vitro invasiveness of mammary carcinoma cells [J]. *Oncol Rep.* 2003, 10(2): 405-10.
- [5] Sordat I, Decraene C, Silvestre T, et al. Complementary DNA arrays identify CD63 tetraspanin and alpha3 integrin chain as differentially expressed in low and high metastatic human colon carcinoma cells [J]. *Lab Invest.* 2002, 82(12): 1715-24.

**For research use only, not for clinical diagnosis.**

Version number: V2.0-202306

Service telephone +86-10-57815020

Service email [complaints@transgen.com](mailto:complaints@transgen.com)

