



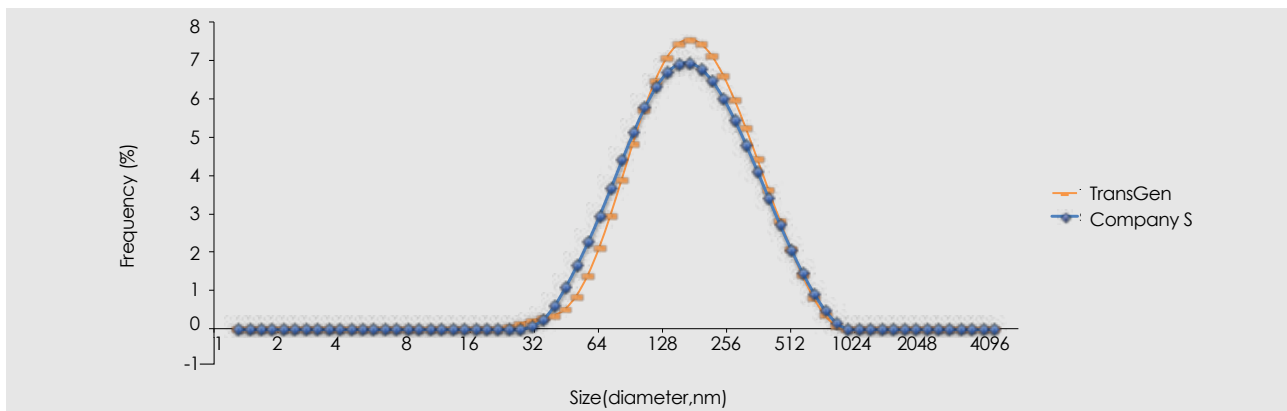
# TransExo™ Exosome Isolation Kit

## TransExo™ Serum/Plasma Exosome Kit

TransExo™ Serum/Plasma Exosome Kit is for the isolation and purification of exosomes from serum/plasma. The isolated exosomes are high in purity and activity, which can be used in Western Blot, transmission electron microscopy, qPCR and other detection methods.

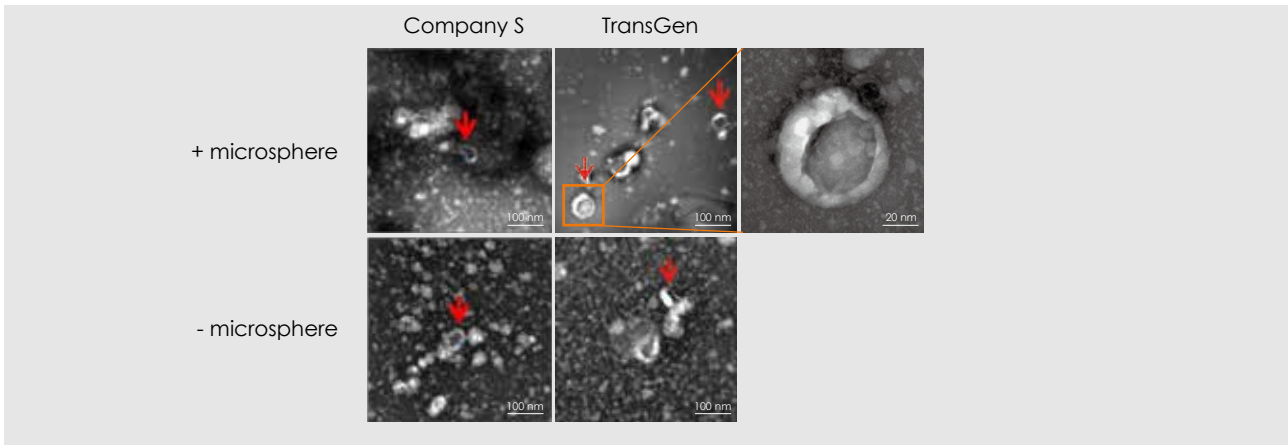
- ★ Easy-to-use, ultracentrifugation-free. Simply mix the serum/plasma with the extraction reagent to separate the exosomes effectively.
- ★ The microsphere purification step ensures high purity and activity, available for various detection methods.
- ★ No additional treatment with protease is required for plasma samples.

### Particle size



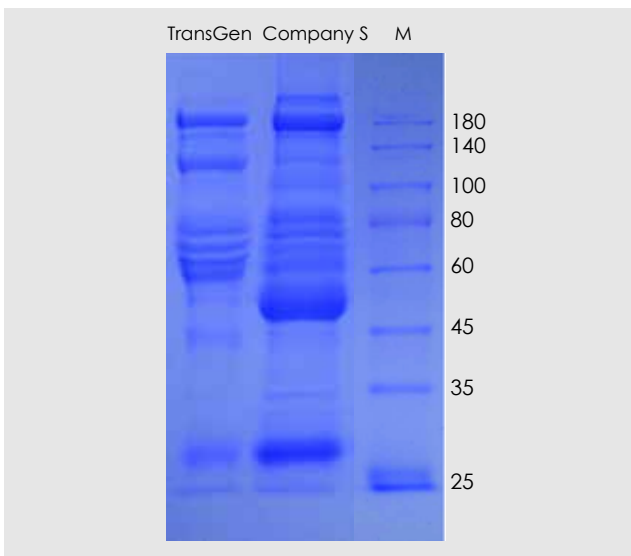
The particle size range of exosomes obtained by TransGen kit was similar to that obtained by Company S kit.

## Electron microscopy (sem) detection



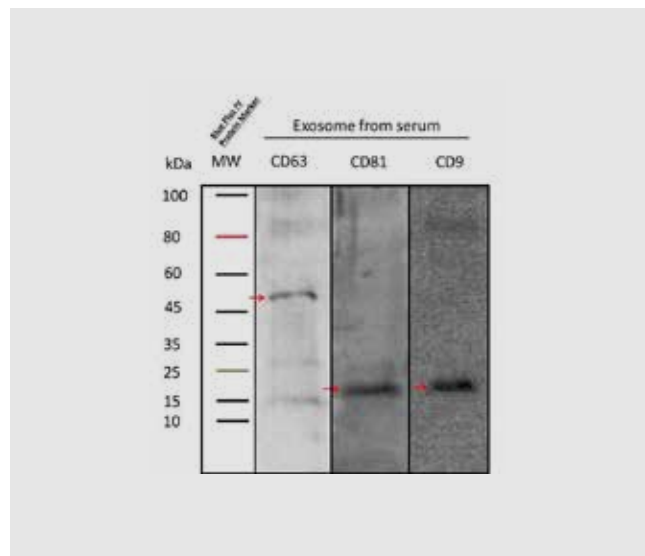
The exosomes obtained by TransGen kit have more complete structure, less impurities and a clearer electron microscopy background.

## Microsphere purification effect



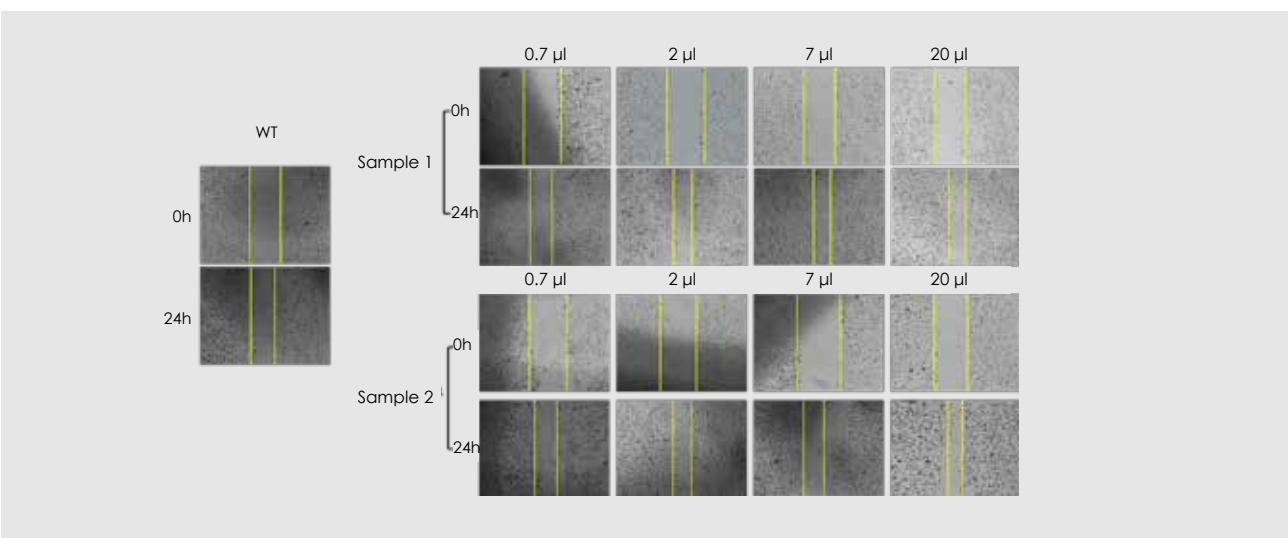
Exosomes obtained by TransGen have less impure proteins and less background interference.

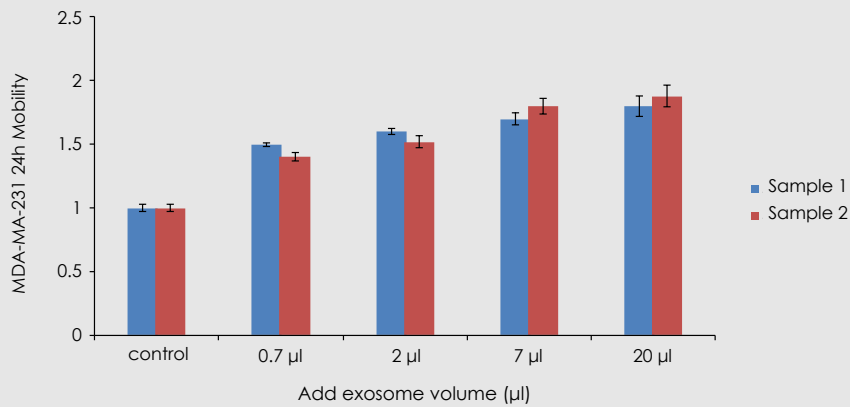
## Exosomes marker protein detection



Three specific bands of CD63, CD81 and CD9 proteins could be detected in the exosomes isolated and purified using TransGen kit.

## Exosome activity test



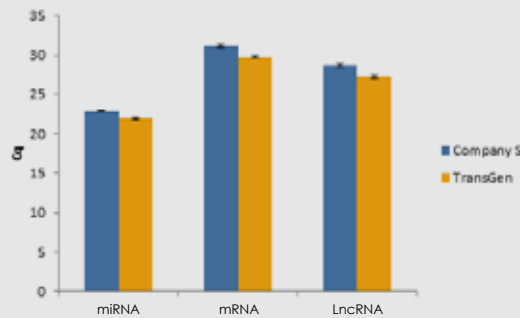


The paper (Harris *et al.*, 2015) showed that MDA-MB-231 cells were sensitive to exosomes secreted by themselves, and the mobility of cells significantly changed after adding exosomes extracted from the supernatant of the cells. It was proved by scratch experiments that in the MDA-MB-231 cells, the cell mobility increased with the addition of exosomes isolated by the TranGen kit, indicating that the isolated exosomes were active and consistent with the paper description.

## TransExo™ Serum/Plasma Exosome Total RNA Extraction Kit

TransExo™ Serum/Plasma Exosome Total RNA Extraction Kit is designed to extract total RNA from serum/plasma exosomes with easy column-based purification procedure.

- ★ Easy, efficient and fast procedures. No ultracentrifugation required.
- ★ High yield and purity. Suitable for varieties of applications, such as qPCR.



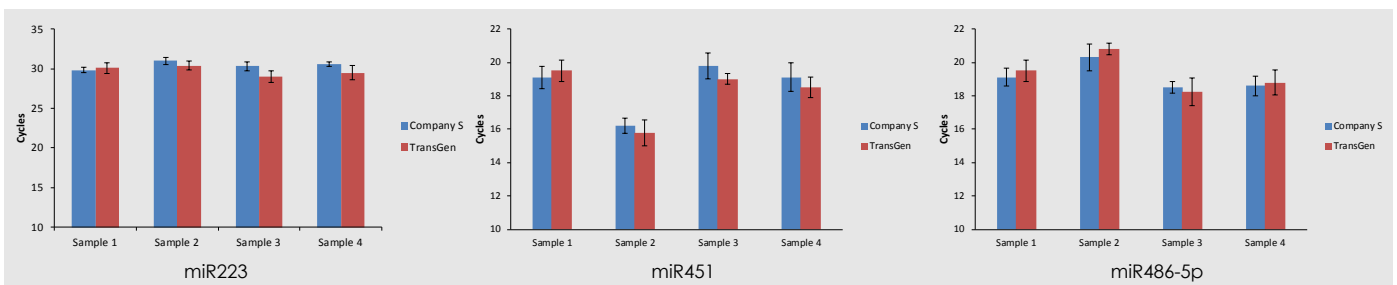
Total RNA from exosomes was extracted using TransGen and Company S products. After extraction, the expression of miRNA (miR-486), mRNA (MTND4), and lncRNA (RN7SL) was detected by quantitative detection to evaluate extraction efficiency.

## TransExo™ Serum/Plasma Exosome miRNA Extraction Kit

TransExo™ Serum/Plasma Exosome miRNA Extraction Kit is for the isolation of miRNA from serum/plasma exosomes.

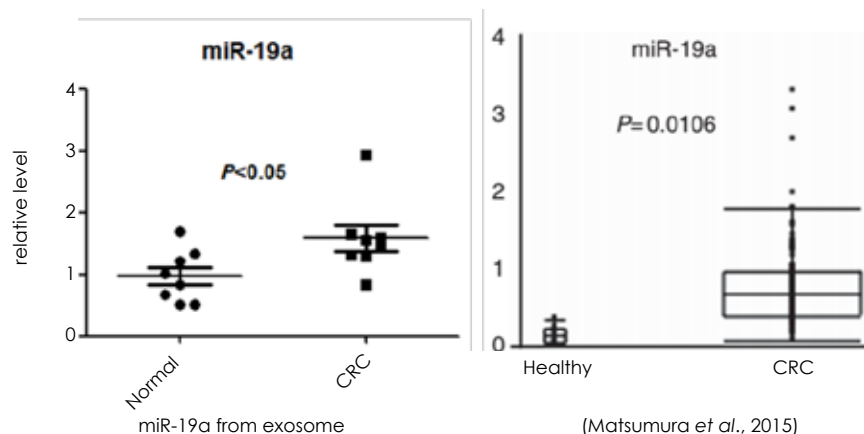
- ★ Easy-to-use, ultracentrifugation-free.
- ★ High yield and high purity, suitable for various detection methods.

### miRNA detection



qPCR was used to detect the expression of exosome-specific miRNA. It was found that miR223, miR451 and miR486-5p were specifically expressed, and the signal of miR451 and miR486-5p were stronger. miRNAs from different human serum have significant individual expression differences, which could be detected by TransGen and Company S kits; serum samples from the same person were detected by TransGen and Company S kits and showed little difference. All of the above results were obtained from the average of 3 repetitions.

## CRC-related miRNA detection



The paper (Matsumura *et al.*, 2015) reported that miR-19a expression would be increased in the serum of colorectal cancer patients. Exosome miRNAs were extracted from the serum of healthy people and patients with colorectal cancer with TransGen kit. The results showed that the expression of miR-19a in the serum of patients with colorectal cancer was increased, which was consistent with the results reported in the paper.

Product Name	Cat. NO	Specifications
TransExo™ Serum/Plasma Exosome Kit	FE101-01	10 rxns
	FE101-02	25 rxns
TransExo™ Serum/Plasma Exosome Total RNA Extraction Kit	FE201-01	25 rxns
	FE201-02	50 rxns
TransExo™ Serum/Plasma Exosome miRNA Extraction Kit	FE301-01	25 rxns
	FE301-02	50 rxns

### Tips

Please refer to product protocol for storage condition.

### Notes

Further details can be found in the customer contact below. For any questions, please contact us by calling Customer Service at +86-400-898-0321 or contact our distributors.



## About us

- ▶ We provide high quality products for life science.
- ▶ We provide simple and efficient methods.
- ▶ We provide new concept for scientific research.

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