



Exosome Products

Exosomes are phospholipid membrane secretory vesicles with a diameter of 30-200 nm, which are widely present and distributed in various body fluids. Exosomes can carry proteins, lipids, nucleic acids and other biologically active molecules to transmit signals between cells, which are related to a variety of physiological and pathological processes. The exosomes secreted by different cells have different components and functions, which can be used as biomarkers for disease diagnosis. The widespread existence of exosomes in the body and the convenience of obtaining them make them a potentially effective way for disease diagnosis and treatment.

TransGen provides special reagents for serum/plasma, cell supernatant, urine exosomes extraction and serum/plasma exosomes total RNA extraction reagents to unlock the secrets of exosomes together with you.

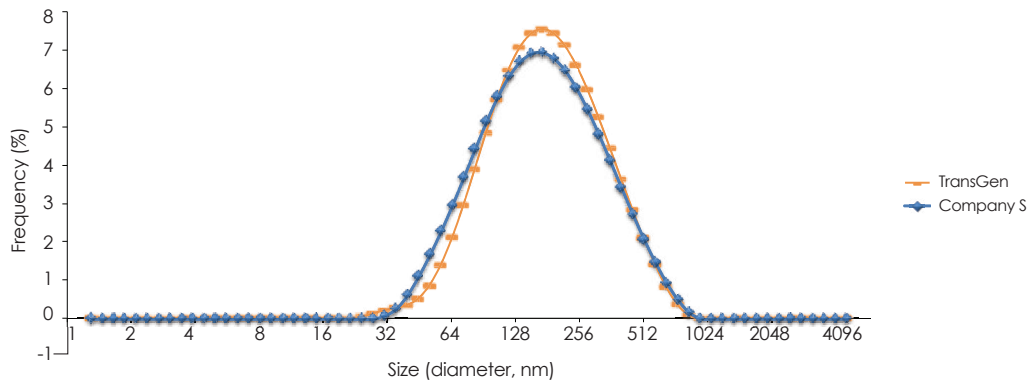
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TransExo[®] Serum/Plasma Exosome Kit

TransExo[®] Serum/Plasma Exosome Kit is designed to extract and purify exosomes from serum or plasma. The exosomes purified by microspheres have a more complete structure, higher activity and purity, and can be used in Western Blot, TEM, qPCR and other applications.

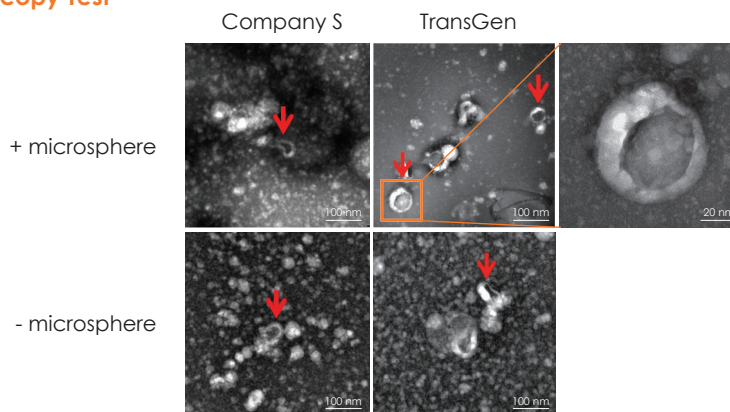
- ★ Easy-to-use. No ultracentrifugation required. The exosomes can be effectively separated by simply mixing the serum/plasma with the extraction reagent.
- ★ With the addition of microsphere purification steps, the obtained exosomes have high purity and high activity, which can be applied to a variety of detection methods.
- ★ No need of extra protease to treat plasma.

Particle Size Test



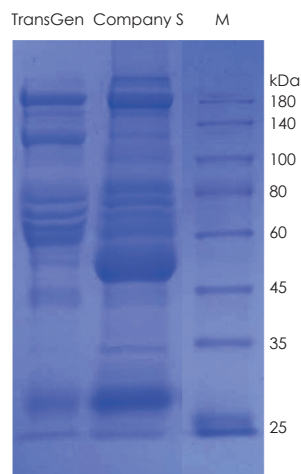
TransGen and Company S products were used to extract exosomes. The particle size test results show that the size distribution of exosomes extracted by TransGen products is nearly the same as that of Company S products.

Electron Microscopy Test



The exosomes purified by TransGen products (+ microspheres) have a more complete structure, fewer impurities, and a clearer electron microscope background.

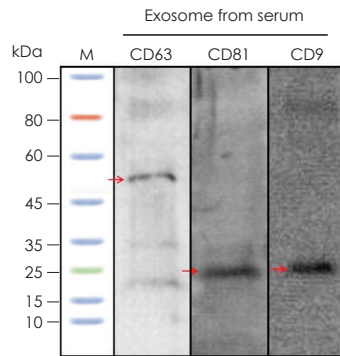
Microsphere Purification Effect



M: Blue Plus[®] IV Protein Marker

Using TransGen and Company S products to extract exosomes, the results of Coomassie Brilliant Blue staining show that the exosomes obtained by TransGen products have fewer impurity proteins and little background interference.

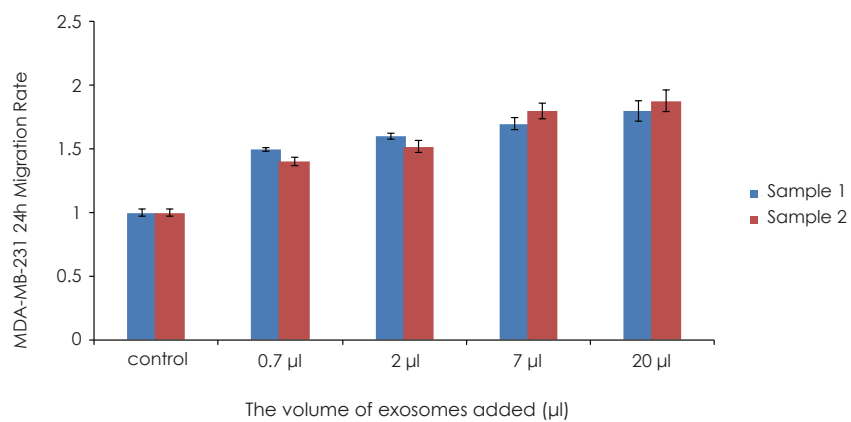
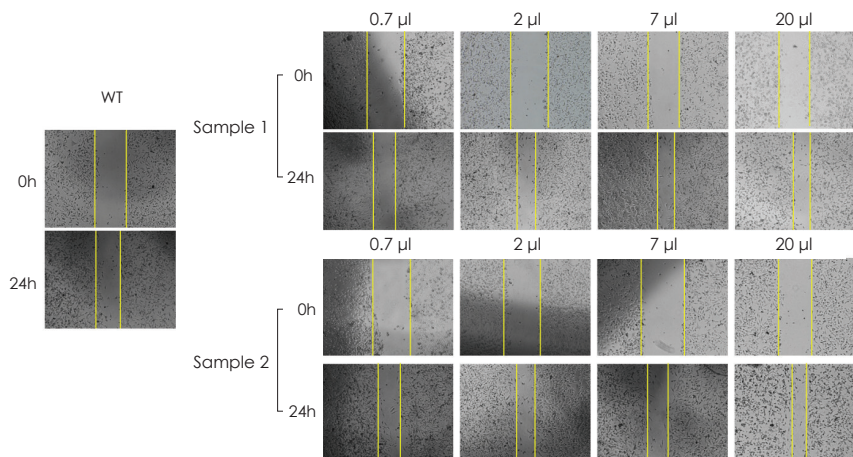
Exosomal Marker Protein Detection



M: Blue Plus® IV Protein Marker

Using TransGen products to extract exosomes, the WB test results showed that the marker proteins CD63, CD81 and CD9 of exosomes can be successfully detected.

Exosomal Activity Test

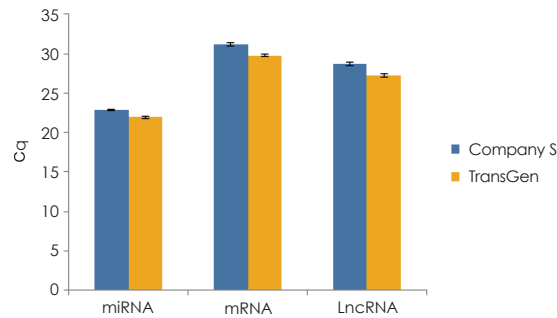


The literature (Harris et al., 2015) shows that MDA-MB-231 cells are sensitive to exosomes secreted by themselves. After addition of exosomes extracted from the cell supernatant, the cell migration speed changed significantly. The scratch assay proved that in MDA-MB-231 cells, after adding exosomes extracted from TransGen products, the cell migration rate increased with the increase of the content of exosomes added, indicating that the isolated exosomes are active, consistent with the description in the literature.

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 an easy and fast column-based purification procedure, featuring easy and fast procedures, and high yield. The extracted RNA can be applied to a variety of detection methods such as qPCR.

- ★ Easy-to-use. No ultracentrifugation required.
- ★ High yield and purity, suitable for a variety of detections.



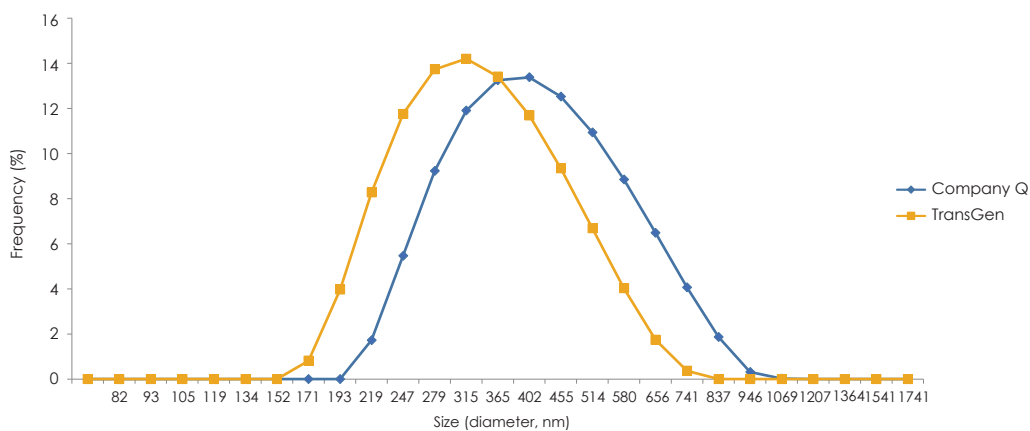
Exosome total RNA was extracted, using TransGen and Company S products. The expression of miRNA (miR-486), mRNA (MTND4), and lncRNA (RN7SL) was determined by quantitative detection after reverse transcription. The results show that TransGen products are superior to Company S products.

TransExo[®] Cell Media Exosome Kit

TransExo[®] Cell Media Exosome Kit is a product designed for the extraction and purification of exosomes in cell supernatant. The exosomes purified by microspheres have a more complete structure, higher activity and purity, and can be used in Western Blot, TEM, qPCR and other applications.

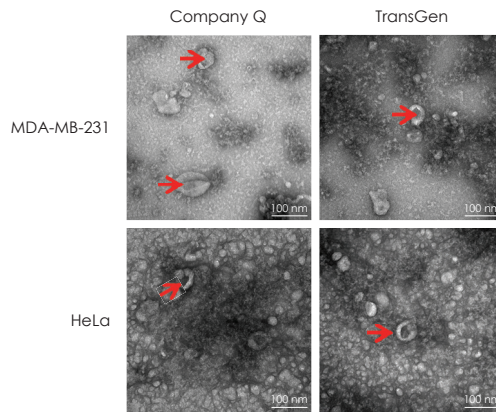
- ★ Easy-to-use. No ultracentrifugation required.
- ★ High sensitivity, low input of sample.

Particle Size Test



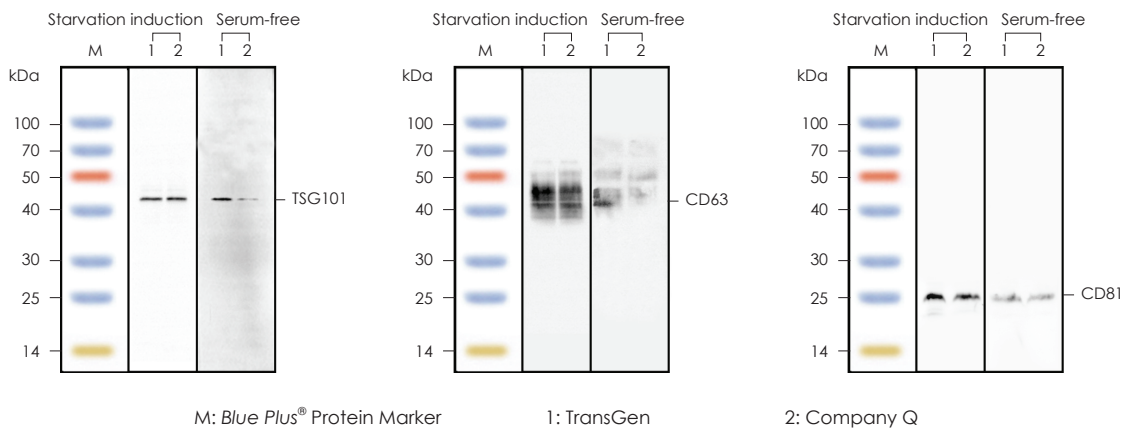
TransGen and Company Q products were used to extract exosomes. The particle size test results show that the size distribution of exosomes extracted by TransGen products is narrow and sharp, which is slightly superior to Company Q.

Electron Microscopy Test



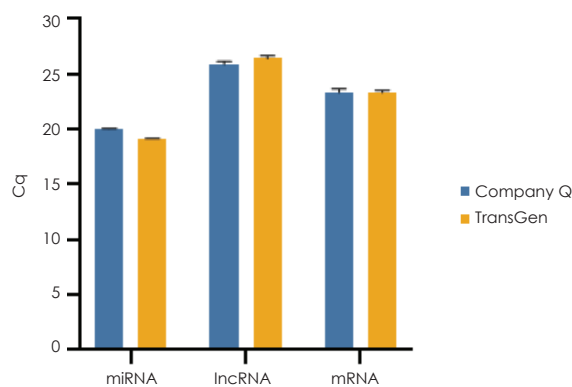
TransGen and Company Q products were used to extract exosomes from the supernatant of MDA-MB-231 and HeLa cells. The results of electron microscopy show that all exosomes with intact structures can be detected.

Exosomal Marker Protein Detection



MDA-MB-231 cells were subjected to starvation induction treatment and cultured in a serum-free medium. TransGen products and Company Q products were used to extract exosomes in the cell supernatant. WB detection results show that the marker protein TSG101, CD63, CD81 of exosomes can be detected.

Exosomal RNA Detection



Total RNA was extracted from exosomes purified with products of TransGen and Company Q. After reverse transcription, the expression of miRNA (miR-92a), lncRNA (RN7SL), and mRNA (MTND4) was detected by qPCR. The results show that expression of all three types of RNA can be detected.

Product Name	Cat. No.	Specification
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™ Cell Media Exosome Kit	FE401-01	25 ml+10 ml
TransExo™ Urine Exosome Kit	FE501-01	2×20 ml+10 ml



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Reminder

If you have any questions, please contact us by customer service hot line +86-400-898-0321



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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