

EXOBX® Exosomes Protein Extraction Kit

Cat. no. R6306

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Catalog Number	Reagent In Kit	Size	Storage
R6306	Exosome protein extraction reagent (4x)	10 mL	RT
	Manual	1	

1. Transportation and Storage

This product is transported and stored at room temperature, and valid for 3 years.

2. Important Product Information

- 1) The exosome protein extracted by using this product has been denatured, so it is suitable for Western Blot, but not ELISA and enzyme activity measurement.
- 2) The concentration of exosome proteins in the lysates could be measured by using both Bradford and BCA protein concentration assay method.
- 3) Please wear lab clothes, gloves and safety glasses during the experiment.

3. Product Introduction

The product was specifically designed to extract proteins from various exosomes, which contains unique protein denaturant and lyse exosome effectively. Therefore, the exosome protein concentration is high, and very suitable for western blot experiment.

4. Product Features

- 1) Easy to use - simply mix with the exosome solution to lyse exosomes and extract exosomal proteins.
- 2) Dual function - also serves as a loading buffer; the extracted exosomal protein solution can be directly used for SDS-PAGE analysis.

5. Additional Materials and Reagents Required

- 1,4-dithiothreitol (DTT) or β -mercaptoethanol (β -ME)

6. Experimental Procedure

- 1) The exosome protein extraction reagents is the lysis buffer with four fold concentration of protein denaturant, so mix the reagent with exosome solution at the ratio of 1:3 to form exosome lysates.
- 2) Boil the lysates at 100 °C for 5 min, cool for 5 min by using ice-water mixture.
- 3) Centrifuge at 12 000g for 5 min at 4 °C, and transfer the supernatant to a new microcentrifuge tube.
- 4) Measure the protein concentration in exosome lysate supernatant by using BCA protein concentration assay kit.
- 5) Load the lysates into SDS-PAGE, and analysis exosome protein marker by using western blot.

7. Identification of Isolated exosomes

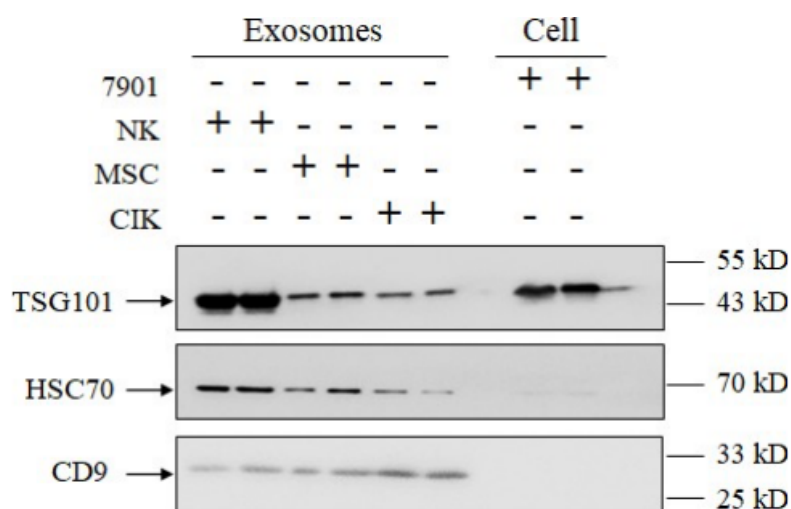


Figure 1. Identification of proteins extracted from various exosomes.

8. Frequently Asked Questions and Analysis

Questions	Reasons	Solutions
The protein concentration in the lysates is low.	The concentration of exosomes used for lysing is low.	Increase the exosome concentration in samples used for protein extraction.
Non-specific bands in western blot increase	The exosome solution contains some foreign proteins, which downregulate exosome purity and increase the chance of non-specific bands in western blot.	Use the exosome with high purity to extract protein.