Exosome Protein Detection Kit (CD63 & TSG101)

1   Contents

Components	HY-K1064-5T
Lysis Buffer	20 mL
CD63&TSG101 positive control (2 μg/μL)	50 μL*2
CD63 antibody	10 μL
TSG101 antibody	10 μL
Goat anti-Mouse IgG antibody (HRP)	10 μL

2   Introduction

Exosomes are small vesicles (30-150 nm) containing RNA and protein that are secreted by various types of cells in culture, and found in abundance in body fluids including blood, saliva, urine, and breast milk. Exosomes are thought to function as intercellular messengers, delivering their cargo of effector or signaling macromolecules between specific cells.

MCE Exosome Protein Detection Kit (CD63&TSG101) can specifically detect exosome proteins CD63 and TSG101. This product is suitable for the detection of human, rat and mouse exosomes.

3   General Protocol

1. Melt the Lysis Buffer on ice.

2. Mix the Exosome sample and Lysis Buffer in a 1:1 ratio, lysis on ice for 10 minutes.

3. Centrifuge at 12,000 g at 4°C for 5 minutes. Collect the supernatant and determine the protein concentration by BCA method.

4. Take 10-20 μg of CD63&TSG101 positive control as control, perform Western Blot on samples.

Note: Boil CD63&TSG101 positive control and samples for 5 minutes before loading.

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Table 1. Recommended dilution ratio and predicted band of antibodies

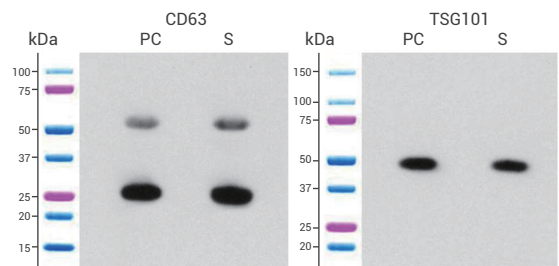| Antibody	Recommended dilution ratio	Predicted band
CD63 antibody	1:1000	26-50 kDa
TSG101 antibody	1:1000	43-47 kDa
Goat anti-Mouse IgG antibody (HRP)	1:5000-1:10000	/

Figure 1. Western Blot result

Note: PC: CD63&TSG101 positive control; S: Exosome sample

4   Storage

Store at -20°C for one year

5   Precautions

1. Reagents related to BCA and WB experiments are not provided in this kit.

2. This product is for R&D use only, not for drug, household, or other uses.

3. For your safety and health, please wear a lab coat and disposable gloves to operate.