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Human Exosome Quantitation Assay Kit

Product Number: ELK017

Shipping and Storage

Store separately at 4°C and -20°C, protected from light. Valid for 1 year.

Component

Component	96T	Storage
Capture Antibody Coated Plate	96T	4°C
Exosomes Standard	1mL×5	-20°C
Enzyme Conjugate	10mL	4°C
Substrate Solution A	6mL	4°C
Substrate Solution B	6mL	4°C
Stop Solution	6mL	4°C
Wash Buffer Concentrate (20×)	30mL/bottle	4°C
Diluent	5mL	4°C

Description

This product is a detection kit for exosome qualification and quantitation based on the ELISA sandwich method. Utilizing high-performance CD9 capture antibody and CD81 detection antibody, it can sensitively detect the CD9 and CD81 targets expressed on the exosome surface. It is suitable for various samples such as human body fluids and cell culture media, enabling rapid and precise quantitation of exosomes in original samples.

Preparation

1. All reagents should be equilibrated to room temperature for at least 15 minutes before use.
2. Dilute the 20x Wash Buffer Concentrate with distilled or deionized water to prepare the 1x working wash solution. Mix well and set aside. (Note: The diluent provided in the kit is only for diluting the standard.).

Protocol

1. Prepare the equilibrated plate strips and reagents. Mix reagents thoroughly.
2. Add each concentration of the Exosomes standard and the test samples to the microplate wells (100 µL/well).
3. Seal the wells with a plate sealer. Incubate at a constant 37°C, protected from light, for 60 minutes.
4. After incubation, wash each well 3 times with the working wash solution (200-250 µL/well each time). After washing, blot the plate dry on absorbent paper.
5. Add 100µL of the enzyme conjugate to each well. Seal the wells with a plate sealer. Incubate at a constant 37°C, protected from light, for 60 minutes.
6. After incubation, wash each well 3 times with the working wash solution (200-250µL/well each time). After washing, blot the plate dry on absorbent paper.
7. Prepare the substrate working solution: Mix Substrate Solution A and B in equal volumes to obtain the substrate working solution. (Use within 2 minutes of preparation.)
8. Add 100 µL of the substrate working solution to each well. Incubate at a constant 37°C, protected from light, for 30 minutes.
9. Add 50 µL of Stop Solution to each well. Mix well and immediately measure the OD450 value (within 3 minutes).

Calibration Procedure

Use XY linear fitting to ensure a linear correlation coefficient R > 0.99. Each time an experiment is performed, a complete set of calibrators must be run to generate a calibration curve.

Calibration Point	S1	S2	S3	S4	S5
Concentration (mg/mL)	0	7.816	15.625	31.25	45
OD450	0.0737	0.3074	0.5183	0.8618	1.2945