

Streptavidin MagPoly Beads

For exosome isolation/detection

Product Information

Product Name	Cat. Number	Size
Streptavidin MagPoly beads	EXOSMB01	1mL
	EXOSMB05	5mL
	EXOSMB10	10mL

1. Product Description

Streptavidin MagPoly beads are ideal for purification of biotinylated proteins and nucleic acids, here is primarily intended for isolation of human exosome subpopulations and flow cytometry analysis from cell culture media or urine. This product can be also used to prepare exosome subpopulations for western blot, electron microscopy and qRT-PCR etc..

Streptavidin MagPoly beads are uniform, superparamagnetic polystyrene beads (1.0μm diameter) coated with streptavidin. The beads need to be coated with your exosome specific antibody (biotinylated) prior to use. The antibody coupled beads are directly incubated with samples and captured exosomes are magnetically separated for downstream applications.

Table 1 **Characteristics of Streptavidin MagPoly beads**

Matrix spherical	Ploymer beads
Ligand	Recombinant streptavidin
Particle size	1.0 μm
Binding capacity	>3,000pmol Biotin/mg Beads
Concentration	10 mg/mL
Storage solution	1X PBS containing 20% ethanol
Storage	2°C - 8°C. DO NOT FREEZE !

2. Protocols

The protocol uses **100µL Streptavidin MagPoly Beads**, but this may be scaled up or down as required.

2.1 Preparation of the Magnetic Beads

- 1) Completely resuspend the beads by shaking or vortexing the vial.
- 2) Transfer 100µL **Streptavidin MagPoly Beads** to a new tube.
- 3) Place the tube on a magnetic separation rack to collect the beads at tube wall. Remove and discard the supernatant.
- 4) Add 0.5 mL selected washing buffer (0.1 M phosphate, 0.15 M NaCl, pH 7.0) to the tube and invert the tube several times to mix. Use the magnetic separation rack to collect the beads and discard the supernatant. Repeat this step twice.

2.2 Method for Couple magnetic beads with biotinylated antibody

Biotinylated antibody: Use approximately **2-5mg of biotinylated antibody/mL** settled Streptavidin MagPoly Beads.

- 1) Resuspend the beads in 100µL Binding/Washing Buffer (0.1 M phosphate, 0.15 M NaCl, 0.1% BSA, pH 7.0).
- 2) Add biotinylated antibody solution to the beads and gently invert tube to mix.
- 3) Incubate the tube at room temperature with mixing (on a shaker or rotator) for one hour.
- 4) Use the magnetic separation rack to collect the beads and discard the supernatant.
- 5) Add 1.0 mL Binding/Washing Buffer to the tube and mix well, use the magnetic separation rack to collect the beads and discard the supernatant. Repeat the wash step three times.
- 6) Resuspend the antibody bound beads in 100µL Binding/Washing Buffer.
- 7) Add antigen sample to the tube and gently invert tube to mix. Incubate at room temperature for 30 minutes to overnight at 4°C.
- 8) Wash the beads with 1mL Binding/Wash Buffer. Use the magnetic separation rack to collect the beads and discard the supernatant. Repeat the wash step three times.
- 9) Add 100µL Binding/Washing Buffer to restore the magnetic bead.

Antibody-coupled magnetic beads can be stored at 2°C to 8°C for several months in Binding/Washing Buffer with 0.02 % sodium azide as a preservative (dependent on the stability of the primary antibody).

Related Products

Exosome labeling & Purification	
DiO-Membrane Exosome Labeling & Purification Kit (green)	EXODiO10-1/EXODiO20-1
Dil-Membrane Exosome Labeling & Purification Kit (red)	EXODiI10-1/EXODiI20-1
DiR-Membrane Exosome Labeling & Purification Kit (red)	EXODiR10-1/EXODiR20-1
PKH67-Membrane Exosome Labeling & Purification Kit (green)	EXOPKH67-10/EXOPKH67-20
Exosome Isolation & Purification	
Exosome Capture and Isolation Kit-CD9 (for cell culture media/urine)	EXOMCUCD9-10
Exosome Capture and Isolation Kit-CD63 (for cell culture media/urine)	EXOMCUCD63-10
Exosome Capture and Isolation Kit-CD81 (for cell culture media/urine)	EXOMCUCD81-10
Exosome Capture and Isolation Kit-Combination (for cell culture media/urine)	EXOMCUCom-10
Exosome Nucleic Acid Extraction	
Exosome Extraction & DNA Isolation Kits (for blood serum/plasma)	EXODNA30A-1/ EXODNA50A-1
Exosome Extraction & DNA Isolation Kits (for cell culture media/urine)	EXODNA10B-1/EXODNA24B-1
Exosome Extraction & RNA Isolation Kits (for blood serum/plasma)	EXORNA30A-1/EXORNA50A-1
Exosome Extraction & RNA Isolation Kits (for cell culture media/urine)	EXORNA10B-1/EXORNA24B-1
Exo-Antibody	
Purified Anti-human Alix Antibody	RGAB100-50/RGAB100-100
Purified Anti-human CD9 Antibody	RGAB101-50/RGAB101-100
Anti-human CD9 Ab Biotin Conjugated	RGAB102-50/RGAB102-100
Purified Anti-human CD63 Antibody	RGAB103-50/RGAB103-100
Anti-human CD63 Ab Biotin Conjugated	RGAB104-50/RGAB104-100
Purified Anti-human CD81 Antibody	RGAB105-50/RGAB105-100
Anti-human CD81 Ab Biotin Conjugated	RGAB106-50/RGAB106-100
Purified Anti-human TSG101 Antibody	RGAB107-50/RGAB107-100
Purified Anti-human PD-L1 Antibody	RGAB108-50/RGAB108-100
Anti-human PD-L1 Ab Biotin Conjugated	RGAB109-50/RGAB109-100
Purified Anti-humanEpCAMAntibody	RGAB110-50/RGAB110-100
Anti-human EpCAM Ab Biotin Conjugated	RGAB111-50/RGAB111-100
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Exosomal Marker CD9 Antibody Set Kit	EXOWBCD9-10
Exosomal Marker Tsg101 Antibody Set Kit	EXOWBTsg101-10
Exosomal Marker Alix Antibody Set Kit	EXOWBALix-10

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