

ExoCap™ Streptavidin CD9/CD63/CD81 Set

Reagents for exosome isolation from human-derived samples

- High-purity exosomes can be isolated by a simple procedure
- Isolated exosomes can be analyzed by WB, qRT-PCR, CLEIA, ELISA, and FCM

Components

ExoCap™ Streptavidin Kit

- Streptavidin Magnetic Beads 2 mL
- Washing/Dilution Buffer 60 mL
- Treatment Buffer 30 mL
- User manual



Biotinylated antibodies against the exosome surface antigens (CD9, CD63, and CD81)

Exosome CD9/CD63/CD81 mAb Set-Biotin

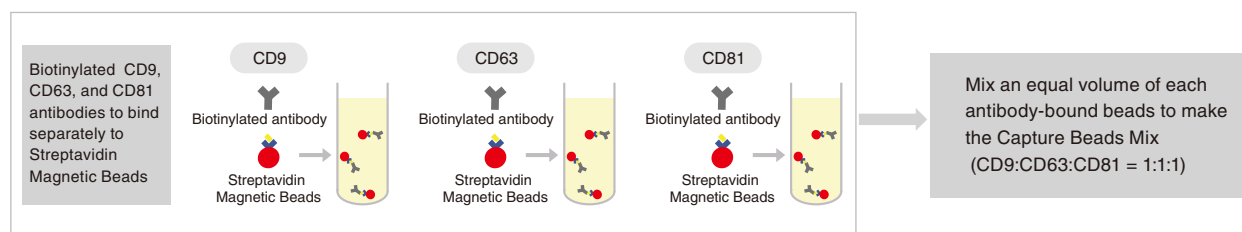
- Anti-CD9 mAb-Biotin (10 µg/50 µL)
- Anti-CD63 (LAMP-3) mAb-Biotin (10 µg/50 µL)
- Anti-CD81 (TAPA1) mAb-Biotin (10 µg/50 µL)
- User manual

Biotinylated antibodies to CD9, CD63, and CD81 are highly specific and perform excellently in exosome isolation by immunoprecipitation.

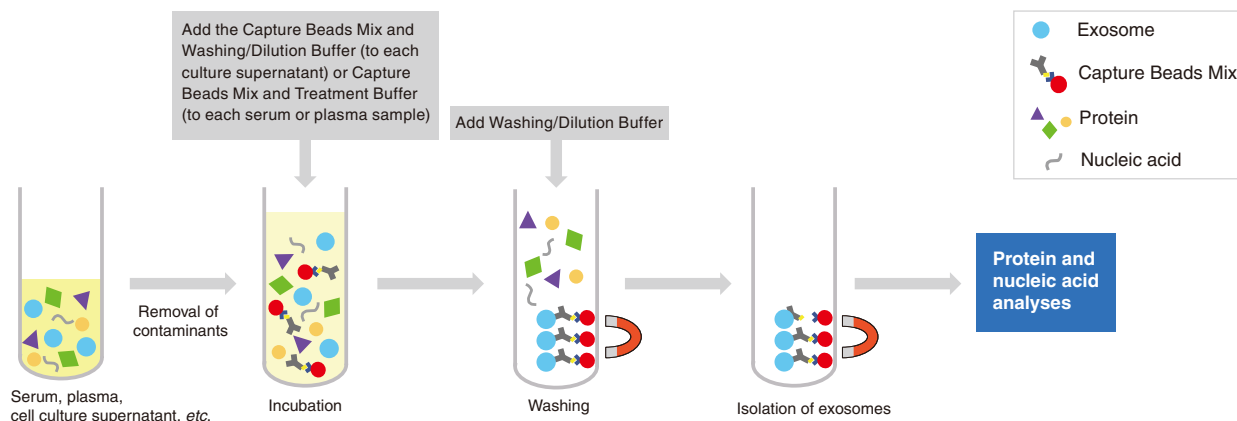
The ExoCap™ Streptavidin Kit consists of streptavidin-immobilized magnetic beads (Magnosphere™) and buffer solutions for capturing, washing, and extracting exosomes. The Magnosphere™ is coated with a JSR Life Sciences Corporation proprietary hydrophilic polymer to decrease non-specific binding. It has been used in *in vitro* diagnostic use. You can isolate exosomes in high-purity by using it together with our original biotinylated specific antibodies to CD9, CD63, and CD81.

Outline of ExoCap™ Streptavidin CD9/CD63/CD81 Set protocol

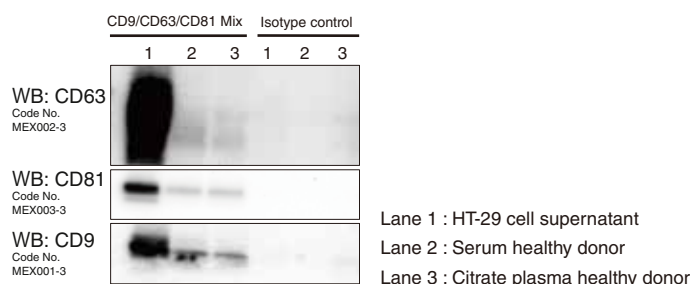
(1) Preparation of Capture Beads Mix



(2) Isolation of exosomes

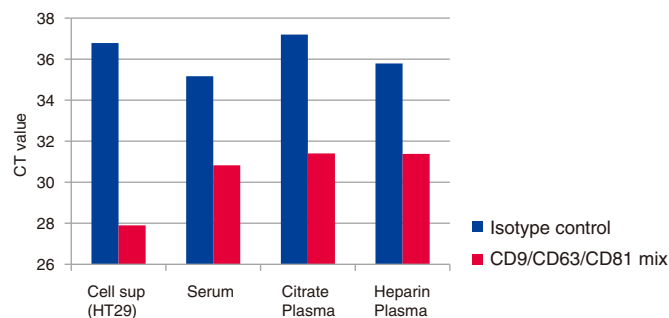


1. Western blot analysis of isolated exosomes



After allowing the biotinylated CD9, CD63, and CD81 antibodies to bind separately to Streptavidin Magnetic Beads, an equal volume of each antibody-bound beads was mixed together (CD9/CD63/CD81 Mix). Using the mixed beads, exosomes were isolated from each sample and subjected to Western blot analysis.

2. qRT-PCR analysis of miR-21 in exosomes



After allowing the biotinylated CD9, CD63, and CD81 antibodies to bind separately to Streptavidin Magnetic Beads, an equal volume of each antibody-bound beads was mixed together (CD9/CD63/CD81 Mix). Using the mixed beads, exosomes were isolated from each sample. Nucleic acid was purified with ExoCap™ Nucleic Acid Elution Buffer (Code No. MEX-E) and subjected to qRT-PCR to detect miR-21.

Code No.	Product	Size
MEX-SA123	ExoCap™ Streptavidin CD9/CD63/CD81 Set	1 Set

Related products

< Isotype control >

Code No.	Product	Clone	Isotype	Size
M075-6	Mouse IgG1 (isotype control)-Biotin	2E12	Mouse IgG1κ	50 μg/50 μL
M076-6	Mouse IgG2a (isotype control)-Biotin	6H3	Mouse IgG2aκ	50 μg/50 μL
M077-6	Mouse IgG2b (isotype control)-Biotin	3D12	Mouse IgG2bκ	50 μg/50 μL
M078-6	Mouse IgG3 (isotype control)-Biotin	6A3	Mouse IgG3	50 μg/50 μL

< Antibodies >

Code No.	Product	Clone	Isotype	Application	Reactivity	Size
MEX001-3	Anti-CD9 mAb	A100-4	Mouse IgG2aκ	WB, IP, FCM, ELISA	Hu, Mky	100 μg/100 μL
MEX002-3	Anti-CD63 (LAMP-3) mAb	C047-1	Mouse IgG2bκ	WB, IP, FCM, ELISA	Hu, Mky	100 μg/100 μL
MEX003-3	Anti-CD81 (TAPA1) mAb	A103-10	Mouse IgG2aκ	WB, IP, FCM, ELISA	Hu, Ham, Mky	100 μg/100 μL

WB : Western Blotting, IP : Immunoprecipitation, FCM : Flow Cytometry
Hu : Human, Ham : Hamster, Mky : Monkey
Labeled antibodies (biotin, FITC, and ALP) of the same clones are available.

< Kits and others >

Code No.	Product	Size
MEX-SA	ExoCap™ Streptavidin Kit	1 Kit
MEX-E	ExoCap™ Nucleic Acid Elution Buffer	20 assays
MEX1001	ExoDiluent for Immunoassay	50 mL
3190	Magnetic Rack	1 rack (1.5 mL x 8 tubes)

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Produced by

MBL

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