

# 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

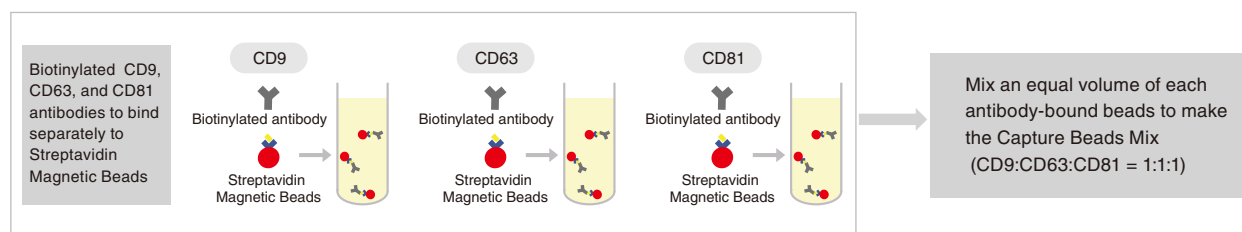
- Anti-CD9 mAb-Biotin (10 µg/50 µL)
- Anti-CD63 (LAMP-3) mAb-Biotin (10 µg/50 µL)
- Anti-CD81 (TAPA1) mAb-Biotin (10 µg/50 µL)
- User manual

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

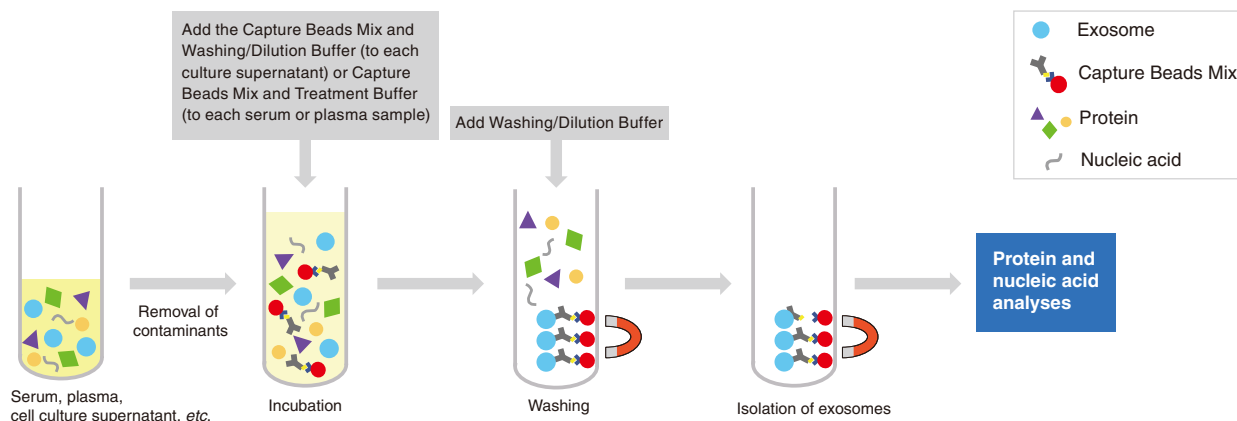
The ExoCap™ Streptavidin Kit consists of streptavidin-immobilized magnetic beads (Magnosphere™) and buffer solutions for capturing, washing, and extracting exosomes. The Magnosphere™ is coated with a JSR Life Sciences Corporation proprietary hydrophilic polymer to decrease non-specific binding. It has 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

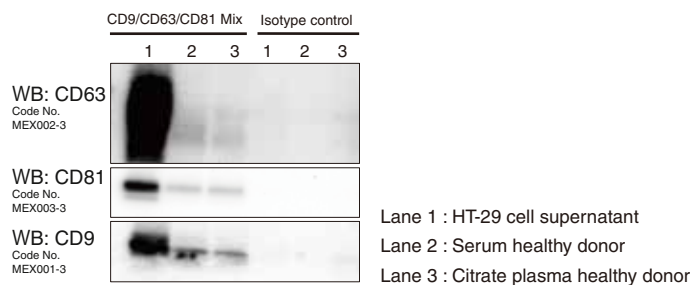
#### (1) Preparation of Capture Beads Mix



#### (2) Isolation of exosomes

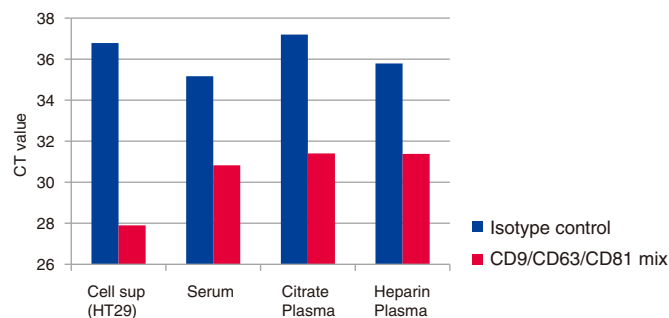


## 1. Western blot analysis of isolated exosomes



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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2017.10

349197-1710

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