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Inspiration for Life Science

MONOCLONAL ANTIBODY

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Catalog No. SHI-EXO-M02

Anti CD63 [Clone : 8A12]

BACKGROUND

CD63 (also known as LAMP-3, Melanoma-associated antigen ME491, TSPAN30, MLA1 and OMA81H) is a cell surface glycoprotein which belongs to the tetraspanin superfamily. CD63 is known to complex with integrins. CD63 is expressed on activated platelets, monocytes and macrophages, and is weakly expressed on granulocytes, T cell and B cells.

Product type	Primary antibody
Immunogen	Human CD63 (a.a. 104-202)
Rased in	Mouse
Myeloma	-
Clone number	8A12
Isotype	IgG2a
Source	Culture supernatant
Purification	Affinity purified by Protein G
Buffer	Phosphate buffered saline containing 0.1％ NaN$_3$ as a preservative
Concentration	1 mg / mL
Volume	50 ul
Label	Unlabeled
Specificity	Human CD63
Cross reactivity	Human. Other species is not tested.
Storage	Store below - 40°C Aliquot to avoid cycles of freeze/thaw.

Application notes **Recommended dilutions**	・ **Western blotting**: 1/500 - 1/2,000 （0.5 - 2ug/mL, non-reductive condition） ・ **Immunoprecipitation**: 1/200 – 1/1,000 （1- 5ug/mL） * Experiment example : Serum and Culture supernatant Exosome Other applications have not been tested. Optimal dilutions/concentrations should be determined by the end user.
References	-

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ANTIBODY CHARACTERIZATION

Reduction   **Nonreduction**

Sample：
 C32 cell Exosome (5ug, 1ug)
Primary antibody：
 anti-CD63 (8A12) (1ug/mL)
Secondary antibody：
 Anti-mouse IgG-HRP
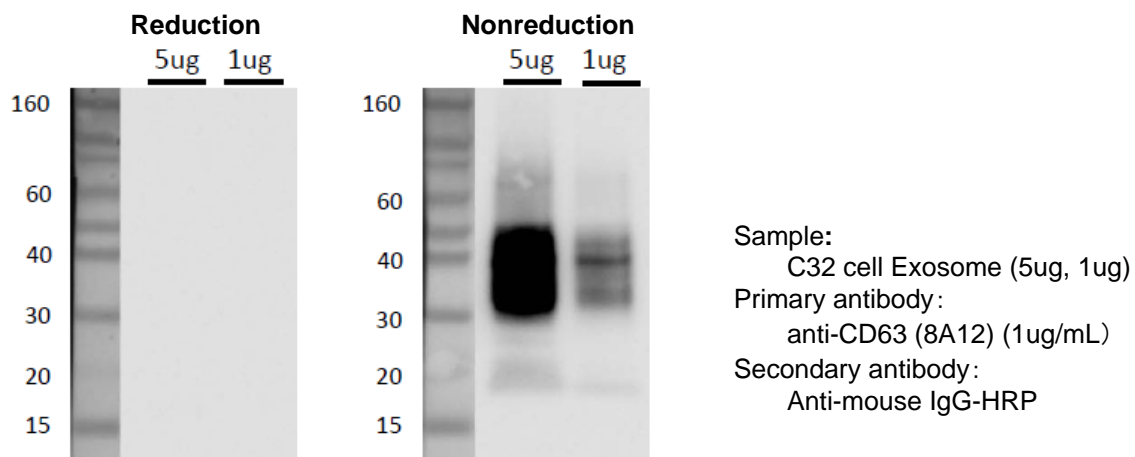
Fig.1 **Western blot** analysis of CD63 in C32 cell Exosome with anti-CD63 (8A12) antibody

Sample
1. Anti-CD63 (8A12) Serum A
2. Control antibody Serum A
3. Anti-CD63 (8A12) Serum B
4. Control antibody Serum B
5. Ultracentrifugation Serum A
6. Ultracentrifugation Serum B
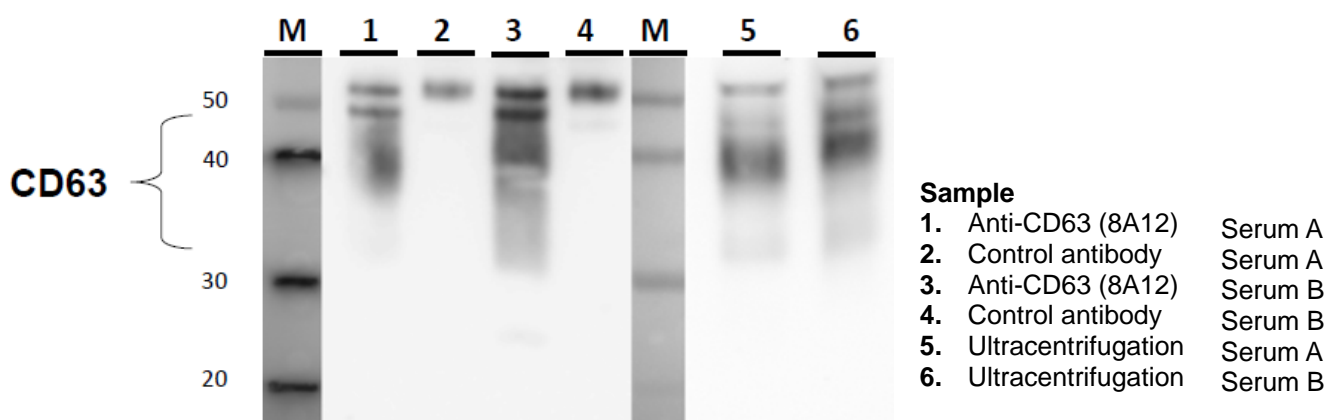
Fig.2 **Immunoprecipitation** in Human serum exosome

Protocol

Sample
 Serum   150uL
 +
 Anti-CD63(8A12) 1ug (Solid phase Magnetic bead)

 PBS   150uL

Rotated at 4℃ o/n

Washed

SDS-PAGE sample buffer 15uL

Denatured by heating

SDS-PAGE
WB (Anti-CD63(8A12) : 1ug/mL)

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Sample
1. Anti-CD63 (8A12)
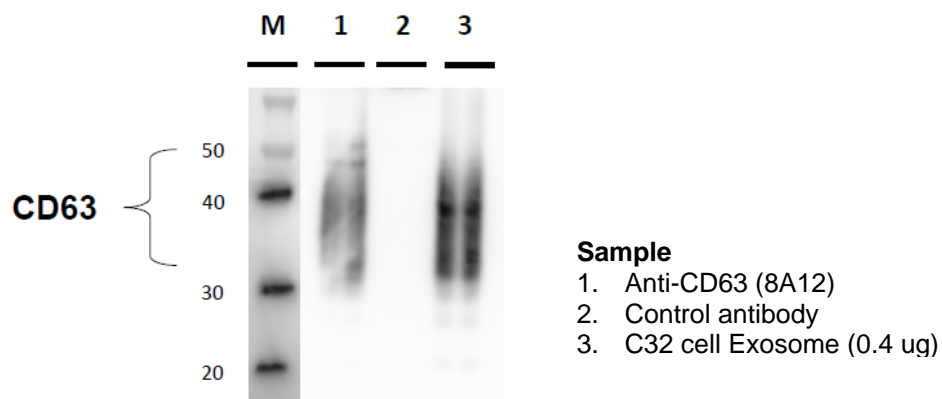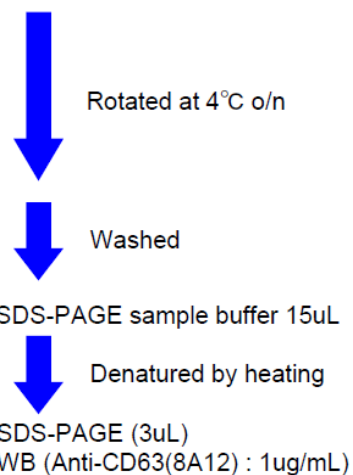2. Control antibody
3. C32 cell Exosome (0.4 ug)
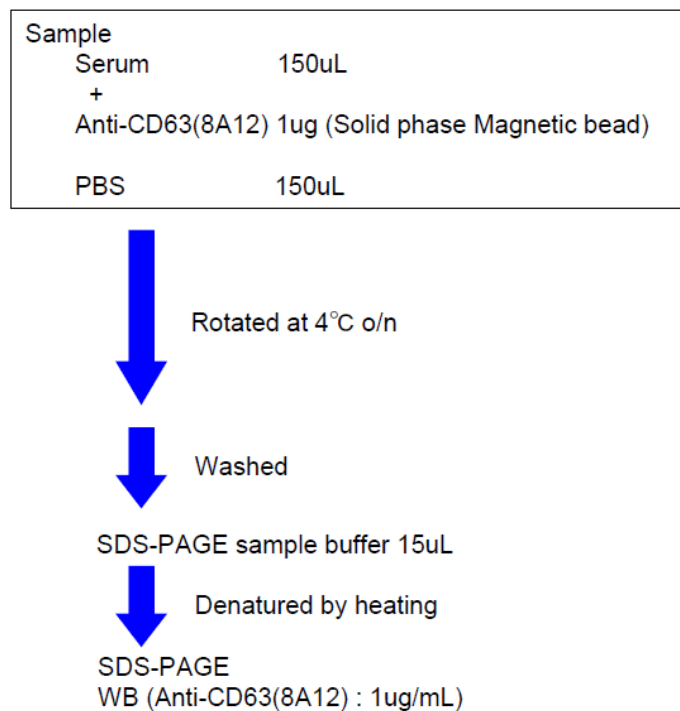
Fig.3 **Immunoprecipitation** in C32 cell (Melanoma cell line) Exosome

Protocol

Sample
C32 cell Exosome 2 ug
+
Anti-CD63(8A12) 1ug (Solid phase Magnetic bead)

PBS+1%BSA   200uL(Total)

↓ Rotated at 4℃ o/n

↓ Washed

SDS-PAGE sample buffer 15uL

↓ Denatured by heating

SDS-PAGE (3uL)
WB (Anti-CD63(8A12) : 1ug/mL)

RELATED PRODUCT:

Product Name	Application	Quantity	Maker	Cat#
Anti CD9 (12A12) Monoclonal Antibody	WB / IP / ELISA	100 ug	CAC	SHI-EXO-M01
Anti CD63 (8A12) Monoclonal Antibody	WB / IP	100 ug	CAC	SHI-EXO-M02
Anti CD81 (12C4) Monoclonal Antibody	WB / IP	100 ug	CAC	SHI-EXO-M03

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