



MONOCLONAL ANTIBODY

For research use only, Not for diagnostic use.

Catalog No. SHI-EXO-M01S

Anti CD9 [Clone : 12A12]

BACKGROUND

CD9 is a cell surface glycoprotein which belongs to the tetraspanin superfamily. CD9 is known to complex with integrins and other transmembrane 4 superfamily proteins. It is found on the surface of exosomes. It can modulate cell adhesion and migration and also trigger platelet activation and aggregation.

Product type	Primary antibody
Immunogen	Human CD9 (a.a. 113-195)
Raised in	Mouse
Myeloma	-
Clone number	12A12
Isotype	IgG2b
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	10 ul
Label	Unlabeled
Specificity	Human CD9
Cross reactivity	Human. Other species is not tested.
Storage	Store below - 40°C Aliquot to avoid cycles of freeze/thaw.

Application notes	• Western blotting: 1/500 - 1/2,000 (0.5 - 2ug/mL, non-reductive condition)
Recommended dilutions	• Immunoprecipitation: 1/200 – 1/1,000 (1- 5ug/mL) * Experiment example : Serum Exosome • ELISA: 1/10,000 – 1/200,000 (5 ng/mL - 0.1ug/mL) • Flow cytometry Other applications have not been tested. Optimal dilutions/concentrations should be determined by the end user.

References	Shigeyasu Tsuda <i>et al.</i> , Scientific Reports volume 7, Article number: 12989 (2017) N Nishida-Aoki <i>et al.</i> , Mol Ther. 2017 Jan 4;25(1):181-191. doi: 10.1016/j.ymthe.2016.10.009. Matsuzaki K <i>et al.</i> , Oncotarget. 2017 Apr 11; 8(15): 24668–24678. doi: 10.18632/oncotarget.14969 Kazutoshi Fujita <i>et al.</i> , Sci Rep. 2017; 7: 42961. doi: 10.1038/srep42961 Yoshioka Y <i>et al.</i> , Nat Commun. 2014 Apr 7;5:3591. doi: 10.1038/ncomms4591. Saito S <i>et al.</i> , Sci Rep. 2018 Mar 5;8(1):3997. doi: 10.1038/s41598-018-22450-2. Yagi Y <i>et al.</i> , Neurosci Lett. 2017 Jan 1;636:48-57. doi: 10.1016/j.neulet.2016.10.042. Epub 2016 Oct 22. Ueda K <i>et al.</i> , Sci Rep. 2014 Aug 29;4:6232. doi: 10.1038/srep06232.
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ANTIBODY CHARACTERIZATION

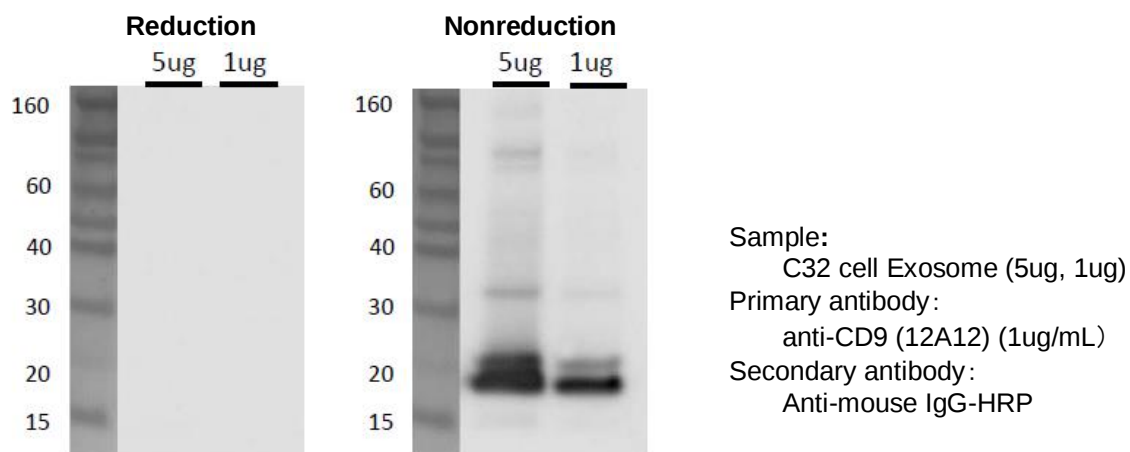


Fig.1 Western blot analysis of CD9 in C32 cell Exosome with anti-CD9 (12A12) antibody

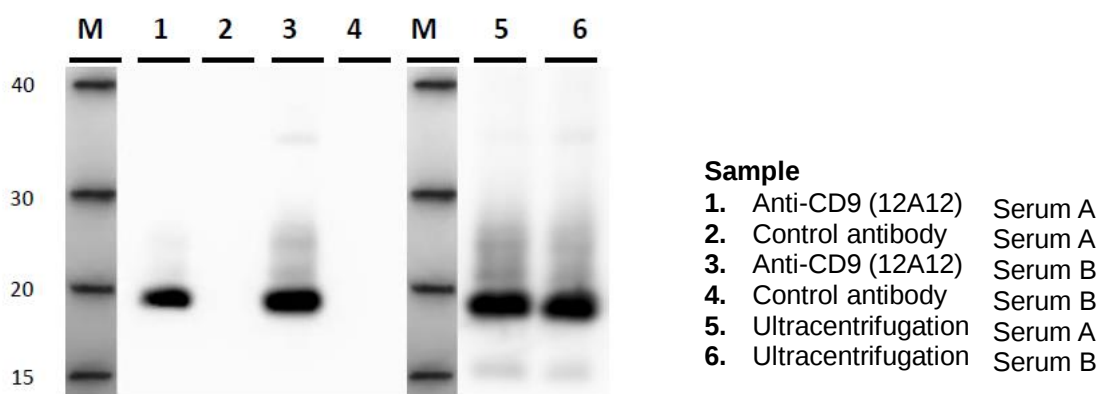
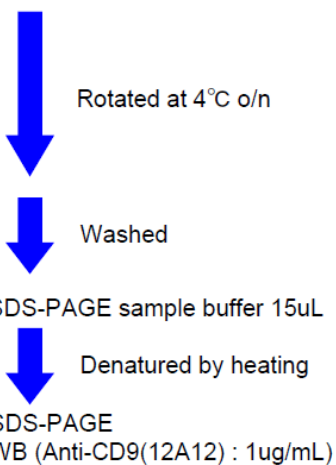


Fig.2 Immunoprecipitation in Human serum exosome

Protocol

Sample	
Serum	150uL
+	
Anti-CD9(12A12)	1ug (Solid phase Magnetic bead)
PBS	150uL



ANTIBODY CHARACTERIZATION

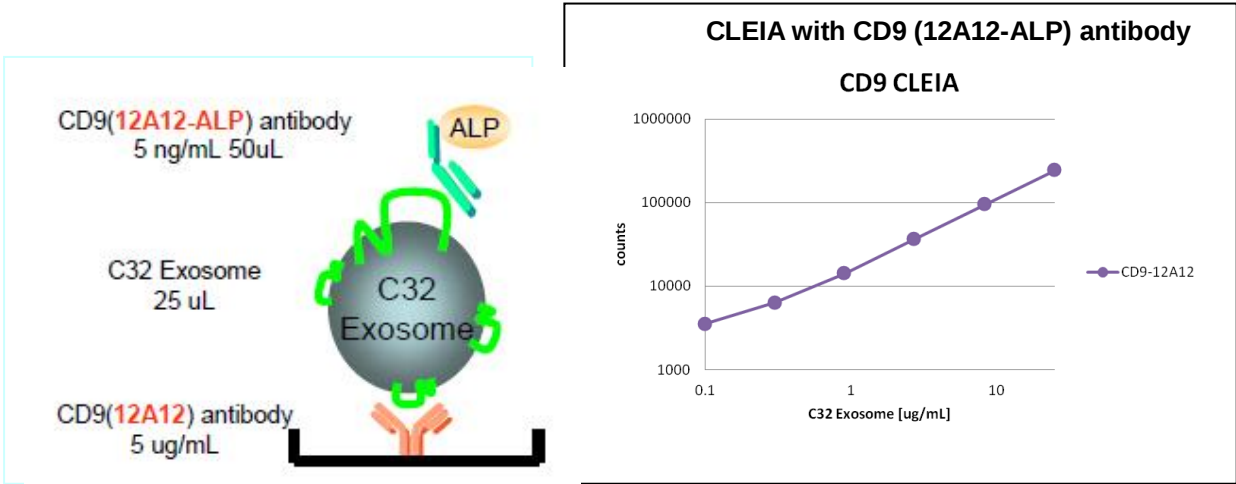


Fig.3 ELISA data of C32 cell exosome with anti-CD9 (12A12-ALP) antibody (5 ng/mL)

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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