Datasheet for ABIN687742

anti-CD63 antibody (AA 101-200)

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Overview

Quantity:	100 µL
Target:	CD63
Binding Specificity:	AA 101-200
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD63 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CD63
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Purified by Protein A.

Target Details

Target:	CD63
Alternative Name:	CD63/MLA1 (CD63 Products)

Target Details

Background:	Synonyms: MLA1, ME491, LAMP-3, OMA81H, TSPAN3, CD63 antigen, Granulophysin, Lysosomal-associated membrane protein 3, Melanoma-associated antigen ME491, Ocular melanoma-associated antigen, Tetraspanin-3, Tspan-3, CD63 Background: Functions as cell surface receptor for TIMP1 and plays a role in the activation of cellular signaling cascades. Plays a role in the activation of ITGB1 and integrin signaling, leading to the activation of AKT, FAK/PTK2 and MAP kinases. Promotes cell survival, reorganization of the actin cytoskeleton, cell adhesion, spreading and migration, via its role in the activation of AKT and FAK/PTK2. Plays a role in VEGFA signaling via its role in regulating the internalization of KDR/VEGFR2. Plays a role in intracellular vesicular transport processes, and is required for normal trafficking of the PMEL luminal domain that is essential for the development and maturation of melanocytes. Plays a role in the adhesion of leukocytes onto endothelial cells via its role in the regulation of SELP trafficking. May play a role in mast cell degranulation in response to Ms4a2/FceRI stimulation, but not in mast cell degranulation in response to other stimuli.
Gene ID:	967
UniProt:	P08962

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

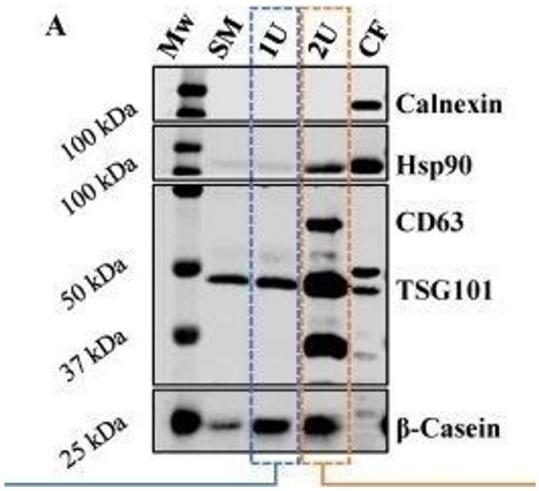
Product cited in:

Del Pozo-Acebo, Hazas, Tomé-Carneiro, Gil-Cabrerizo, San-Cristobal, Busto, García-Ruiz, Dávalos: "Bovine Milk-Derived Exosomes as a Drug Delivery Vehicle for miRNA-Based Therapy." in: **International journal of molecular sciences**, Vol. 22, Issue 3, (2021) (PubMed).

Marzesco, Flötenmeyer, Bühler, Obermüller, Staufenbiel, Jucker, Baumann: "Highly potent intracellular membrane-associated Aβ seeds." in: **Scientific reports**, Vol. 6, pp. 28125, (2016) (PubMed).

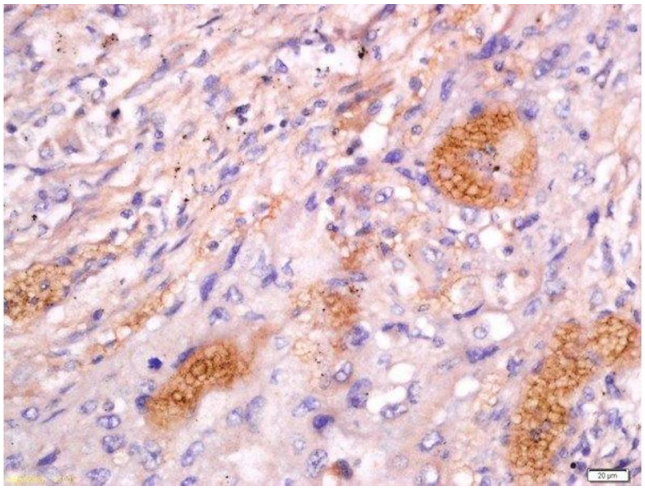
Sun, Zhao, Li, Wang, Nie, Peng, Wang, Zhang, Tian, Li, Song, Wang, Xu, Tian, Zhao, Xu, Zhong, Han, Ling, Chang, Li: "Osteoclast-derived microRNA-containing exosomes selectively inhibit osteoblast activity." in: **Cell discovery**, Vol. 2, pp. 16015, (2016) (PubMed).

Son, Rahimian, Shin, Siltanen, Patel, Revzin: "Microfluidic compartments with sensing microbeads for dynamic monitoring of cytokine and exosome release from single cells." in: **The Analyst**, (2015) (PubMed).



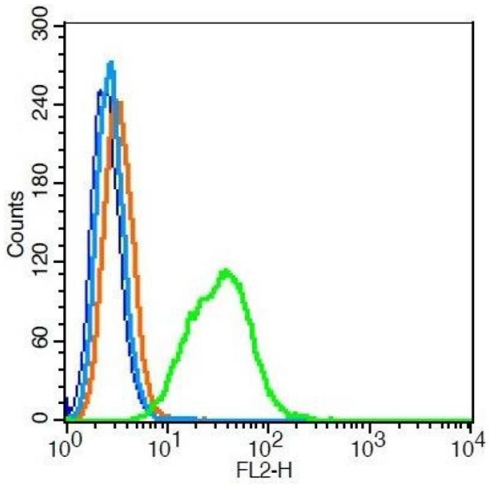
Western Blotting

Image 1. (A) Western Blot analysis of proteins present (Hsp90, CD63 and TSG101) or absent (calnexin) in exosomes and abundant in bovine milk (β-casein). Protein evaluation in: bovine skimmed milk (SM), exosomes obtained from SM by one (1U) or two (2U) ultracentrifugation steps, and the cellular fraction (CF). Equal amount of protein was loaded. Elution protein profile (F.1, F.8 to F.40) of bovine exosomes isolated by 1U followed by SEC (1U + SEC) (B) or 2U + SEC (C). Protein concentration (mg/mL) was estimated by the BCA assay. WB of SEC elution fractions from exosomes isolated by 1U + SEC (D) or 2U + SEC (E). Evaluation of Hsp90, CD63, TSG101, Calnexin and β-casein levels in each fraction (F.1, F.8 to F.40). Mimic hsa-miRNA-148a-3p elution profile (relative expression) of exosomes isolated from skimmed milk by U + T + SEC (F) or U + T + U + SEC (G). Mw: Molecular weight marker (Bio-Rad). - figure provided by CiteAb. Source: PMID33499350



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-CD63/MLA1 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Flow Cytometry

Image 3. HepG2 cells probed with CD63/MLA1 Polyclonal Antibody, Unconjugated at 1:100 for 30 minutes followed by incubation with a conjugated secondary (PE Conjugated) (green) for 30 minutes compared to control cells (blue), secondary only (light blue) and isotype control (orange).