

Mouse CD229 Monoclonal Antibody | anti-CD229 antibody

MOUSE ANTI HUMAN CD229

CATALOG # AAA11951	HOST Mouse	APPLICATIONS Flow Cytometry, Functional Assay, Immunoprecipitation
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PRODUCT SYNONYMS

CD229; Monoclonal Antibody; MOUSE ANTI HUMAN CD229; anti-CD229 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	HLy9.1.25
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	193
Applicable Applications for anti-CD229 antibody	FCM/FACS (Flow Cytometry), IP (Immunoprecipitation)
Application Notes	Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul or 100ul whole blood. Flow Cytometry: Minimum Dilution: 1/50; Maximum Dilution: 1/100
Perservative Stabilisers	0.09% Sodium Azide Preparation
Buffer Solution	Phosphate buffered saline
Target Species	Human
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.



Application Data

Published customer image:SLAMF3 blockade in human hepatocytes is associated with lower susceptibility to HCV. (A) SLAMF3 was stained in primary human hepatocytes (PHHs) and cells from the Huh-7 human hepatoma cell line with a specific antibody (HLy9.1.25 clone; grey) and an isotype-matched control (empty). One of four independent experiments is shown. Huh-7 cells were transfected with scrambled control (sc) siRNA or three specific siRNAs (#1, #2 and #3) targeting SLAMF3, prior to infection with HCVcc; siRNA efficiency was checked by quantifying SLAMF3 mRNA (B) and the CD81 expression level (C) by flow cytometry analysis at 48 h post-transfection. Results are presented as the mean +/-SD (n = 3). Intracellular viral RNA was quantified at 72 h p.i. (D) and the infection was measured at 72 h p.i. by focus-forming units FFUs counting (E) (as inhibition percent; mean of three independent experiments; error bars: SD. **p



Application Data

Published customer image: Effect of SLAMF3 expression on the organization of the actin cytoskeleton. Cells (Huh-7) were stained with phalloidin (rhodamine, red) and anti-SLAMF3 (FITC, green) and SLAMF3 positive (Huh-7-SLAMF3pos) and SLAMF3-negative (Huh-7-SLAMF3neg) cells were examined under the microscope. One representative of two independent experiments is shown.From: Marcq I, Nyga R, Cartier F, Amrathlal RS, Ossart C, et al. (2013) Identification of SLAMF3 (CD229) as an Inhibitor of Hepatocellular Carcinoma Cell Proliferation and Tumour Progression. PLoS ONE 8(12): e82918.



Application Data

Published customer image: Expression of SLAM-R family by HHPHs and Huh-7 and HepG2 human HCC cell lines. SLAM-Rs were stained with specific antibodies against SLAMF1 (CD150), SLAMF2 (CD84), SLAMF4 (CD224) and SLAMF6 (NTBA) (grey) or with matched isotype controls (empty). One of four independent experiments is shown.From: Marcq I, Nyga R, Cartier F, Amrathlal RS, Ossart C, et al. (2013) Identification of SLAMF3 (CD229) as an Inhibitor of Hepatocellular Carcinoma Cell Proliferation and Tumour Progression. PLoS ONE 8(12): e82918.



Application Data

Published customer image: Expression of SLAMF3 assessed by flow cytometry analysis after transfection with vector coding for SLAMF3 or an empty vector (Mock) in Huh-7 and HepG2 cells. SLAMF3 staining (in grey) is overlaid by negative control (in white). One of four independent experiments is shown. doi:10.1371/journal.pone.0082918.s002From: Marcq I, Nyga R, Cartier F, Amrathlal RS, Ossart C, et al. (2013) Identification of SLAMF3 (CD229) as an Inhibitor of Hepatocellular Carcinoma Cell Proliferation and Tumour Progression. PLoS ONE 8(12): e82918.



Application Data

Published customer image: Restoration of SLAMF3 expression in HCC cells inhibits MAPK ERK1/2, JNK and mTOR pathways and induces caspase-dependent apoptosis.(A) SLAMF3 expression was confirmed by Western blot analysis in SLAMF3-over-expressing Huh-7 and mock cells at 48 h post-transfection. ERK1/2, JNK, p38, AKT and mTOR proteins were detected as controls. The activation levels of MAPK ERK1/2 (Thr 202/Tyr 204), JNK (Thr 183/Tyr 185), p38 (Thr 180/Tyr 183), PI3K (p85/p110 Thr 467/Tyr 199), AKT (Ser 473, Thr 308) and mTOR (Ser 2448, Ser 2481) are represented. One of three representative experiments is shown here. (B) The results of an active caspase assay based on cell-permeable fluorochrome inhibitor of caspases (FLICA). Caspase activity was evaluated in HCC cells (Huh-7 and HepG2 lines) at the indicated times after the ectopic introduction of SLAMF3 vector. Caspase activity is shown in the SLAMF3neg subpopulation (in white) and the SLAMF3pos (overlaid in grey) subpopulation from one representative of two independent experiments.From: Marcq I, Nyga R, Cartier F, Amrathlal RS, Ossart C, et al. (2013) Identification of SLAMF3 (CD229) as an Inhibitor of Hepatocellular Carcinoma Cell Proliferation and Tumour Progression. PLoS ONE 8(12): e82918.



Application Data

Published customer image: SLAMF3 expression is repressed in tumour cells from ten resected HCC patients. (A) SLAMF3 mRNA expression was analysed in hepatocytes from resected HCC patients. Specific amplification of SLAMF3 mRNAs using PCR (representative patients #2, #7 and #12) and quantitative PCR in tumour tissues (T) and peritumoral tissues (pT) presented separately (B) and as median (**p

NCBI AND UNIPROT INFORMATION

NCBI GI #	75991709
NCBI GeneID	4063
NCBI Accession #	NP_001028839.1
NCBI GenBank Nucleotide #	NM_001033667.2
Molecular Weight	71,961 Da
NCBI Official Full Name	T-lymphocyte surface antigen Ly-9 isoform b
NCBI Official Synonym Full Names	lymphocyte antigen 9

NCBI Official Symbol	LY9
NCBI Official Synonym Symbols	hly9; mLY9; CD229; SLAMF3
NCBI Protein Information	T-lymphocyte surface antigen Ly-9; SLAM family member 3; cell surface molecule Ly-9; signaling lymphocytic activation molecule 3
UniProt Protein Name	T-lymphocyte surface antigen Ly-9
UniProt Gene Name	LY9
UniProt Synonym Gene Names	SLAMF3
UniProt Entry Name	LY9_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd229-antibody-clone-hly9-1-25-flow-cytometry-immunoprecipitation-elisa/11951>