

SLAMF3 Antibody

Catalog # ASC11305

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q9HBG7
Other Accession	NP_1769 , 55925578
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	72139
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SLAMF3 antibody can be used for detection of SLAMF3 by Western blot at 1 - 2 μ g/mL. Antibody can also be used for immunocytochemistry starting at 10 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	4063
Other Names	T-lymphocyte surface antigen Ly-9, Cell surface molecule Ly-9, Lymphocyte antigen 9, SLAM family member 3, SLAMF3, Signaling lymphocytic activation molecule 3, CD229, LY9
Target/Specificity	LY9; At least three isoforms of SLAMF3 are known to exist. SLAMF3 antibody is predicted to not cross-react with other SLAM protein family members.
Reconstitution & Storage	SLAMF3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	SLAMF3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LY9
Function	Self-ligand receptor of the signaling lymphocytic activation molecule (SLAM) family. SLAM receptors triggered by homo- or heterotypic cell-cell interactions are modulating the activation and differentiation of a wide variety of immune cells and thus are involved in the regulation and interconnection of both innate and adaptive immune response. Activities are controlled by presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2. May participate in adhesion reactions between T lymphocytes

and accessory cells by homophilic interaction. Promotes T-cell differentiation into a helper T-cell Th17 phenotype leading to increased IL-17 secretion; the costimulatory activity requires SH2D1A (PubMed:[22184727](#)). Promotes recruitment of RORC to the IL-17 promoter (PubMed:[22989874](#)). May be involved in the maintenance of peripheral cell tolerance by serving as a negative regulator of the immune response. May disable autoantibody responses and inhibit IFN-gamma secretion by CD4(+) T-cells. May negatively regulate the size of thymic innate CD8(+) T-cells and the development of invariant natural killer T (iNKT) cells (By similarity).

Cellular Location

Membrane; Single-pass type I membrane protein. Cell membrane

Tissue Location

Increased surface expression on T-cells of systemic lupus erythematosus (SLE) patients.

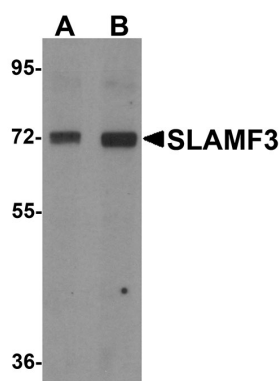
Background

SLAMF3 Antibody: The signaling lymphocyte-activation molecule family member 3 (SLAMF3), also known as LY9, is a cell surface receptor that is expressed on T and B lymphocytes and belongs to the CD150/SLAMF1 receptor family. SLAMF3 was identified through a yeast two-hybrid screening in which SLAMF3 bound to the X-linked lymphoproliferative disease gene product SAP, suggesting that in activated T cells, SLAMF3 signaling can be triggered SAP. Its expression on the cell surface appears to be regulated via its interaction with the clathrin-associated adaptor complex 2 (AP-2). Despite its similarity to SLAMF1 in structure and interactions with SAP, SLAMF3-deficient mice do not exhibit phenotypic characteristics associated with SLAMF1- and SAP-deficient mice, suggesting that SLAMF3 plays other roles in T cell activation.

References

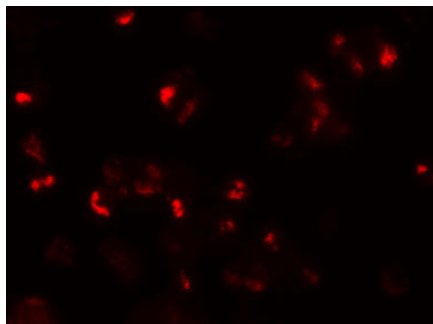
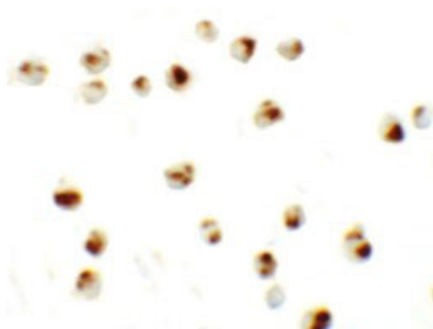
Sayos J, Martin M, Chen A, et al. Cell surface receptors Ly-9 and CD84 recruit the X-linked lymphoproliferative disease gene product SAP. *Blood* 2001; 97:3867-74.
Del Valle JM, Engel P, and Martin M. The cell surface expression of SAP-binding receptor CD229 is regulated via its interaction with clathrin-associated adaptor complex 2 (AP-2). *J. Biol. Chem.* 2003; 278:17430-7.
Graham DB, Bell MP, McCausland MM, et al. Ly9 (CD229)-deficient mice exhibit T cell defects yet do not share several phenotypic characteristics associated with SLAM- and SAP-deficient mice. *J. Immunol.* 2006; 176:291-300.

Images



Western blot analysis of SLAMF3 in 293 cell lysate with SLAMF3 antibody at (A) 1 and (B) 2 µg/mL.

Immunocytochemistry of SLAMF3 in 293 cells with SLAMF3 antibody at 10 µg/mL.



Immunofluorescence of SLAMF3 in 293 cells with SLAMF3 antibody at 20 $\mu\text{g/mL}$.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.