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Datasheet for ABIN6265106 anti-SLAMF1 antibody (C-Term)

2 Images



Overview

Quantity:	100 µL
Target:	SLAMF1
Binding Specificity:	C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLAMF1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	A synthesized peptide derived from human SLAM / CD150, corresponding to a region within C- terminal amino acids.
Isotype:	lgG
Specificity:	SLAM / CD150 Antibody detects endogenous levels of total SLAM / CD150.
Predicted Reactivity:	Bovine,Horse,Sheep,Rabbit,Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:

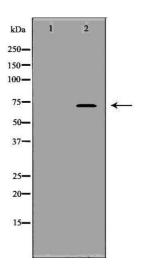
SLAMF1

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Target Details		
Alternative Name:	SLAMF1 (SLAMF1 Products)	
Background:	Description: 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/o	
	SH2D1B/EAT-2. SLAMF1-induced signal-transduction events in T-lymphocytes are different	
	from those in B-cells. Two modes of SLAMF1 signaling seem to exist: one depending on	
	SH2D1A (and perhaps SH2D1B) and another in which protein-tyrosine phosphatase 2C	
	(PTPN11)-dependent signal transduction operates. Initially it has been proposed that	
	association with SH2D1A prevents binding to inhibitory effectors including INPP5D/SHIP1 and	
	PTPN11/SHP-2 (PubMed:11806999). However, signaling is also regulated by SH2D1A which	
	can simultaneously interact with and recruit FYN which subsequently phosphorylates and	
	activates SLAMF1 (PubMed:12458214). Mediates IL-2-independent proliferation of activated	
	cells during immune responses and induces IFN-gamma production (By similarity).	
	Downstreaming signaling involves INPP5D, DOK1 and DOK2 leading to inhibited IFN-gamma	
	production in T-cells, and PRKCQ, BCL10 and NFKB1 leading to increased T-cell activation and	
	Th2 cytokine production (By similarity). Promotes T-cell receptor-induced IL-4 secretion by	
	CD4+ cells (By similarity). Inhibits antigen receptor-mediated production of IFN-gamma, but n	
	IL-2, in CD4-/CD8- T-cells (By similarity). Required for IL-4 production by germinal centers T	
	follicular helper (T(Fh))cells (By similarity). May inhibit CD40-induced signal transduction in	
	monocyte-derived dendritic cells (PubMed:16317102). May play a role in allergic responses ar	
	may regulate allergen-induced Th2 cytokine and Th1 cytokine secretion (By similarity). In	
	conjunction with SLAMF6 controls the transition between positive selection and the	
	subsequent expansion and differentiation of the thymocytic natural killer T (NKT) cell lineage.	
	Involved in the peripheral differentiation of indifferent natural killer T (iNKT) cells toward a	
	regulatory NKT2 type (By similarity). In macrophages involved in down-regulation of IL-12, TN	
	alpha and nitric oxide in response to lipopolysaccharide (LPS) (By similarity). In B-cells activat	
	the ERK signaling pathway independently of SH2D1A but implicating both, SYK and INPP5D,	
	and activates Akt signaling dependent on SYK and SH2D1A (By similarity). In B-cells also	
	activates p38 MAPK and JNK1 and JNK2 (PubMed:20231852). In conjunction with	
	CD84/SLAMF5 and SLAMF6 may be a negative regulator of the humoral immune response (B	
	similarity). Involved in innate immune response against Gram-negative bacteria in	
	macrophages, probably recognizes OmpC and/or OmpF on the bacterial surface, regulates phagosome maturation and recruitment of the PI3K complex II (PI3KC3-C2) leading to	

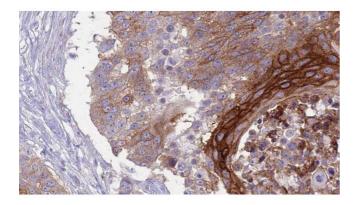
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Target Details	
	accumulation of PdtIns3P and NOX2 activity in the phagosomes (PubMed:20818396). Gene: SLAMF1
Molecular Weight:	70kDa
Gene ID:	6504
UniProt:	Q13291
Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months



Western Blotting

Image 1. Western blot analysis of LoVo cell lysate, using SLAMF1 Antibody. The lane on the left is treated with the antigen-specific peptide.



Immunohistochemistry

Image 2. ABIN6277039 at 1/100 staining Human urothelial cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22jãC. An HRP conjugated goat anti-rabbit antibody was used as the secondary

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