

Rabbit Monoclonal Antibody to Mouse SLAM Family Member 7

Cat. No. CAB11604RM Lot. No. (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Mouse SLAM Family Member 7
Species	Mouse
Source	Rabbit
Antigen Description	Mouse SLAM family member 7, also known as CRACC, SLAMF7, CD319, CD2-like receptor-activating cytotoxic cells, and CS1, is a single-pass type I membrane protein and a member of the CD2 family of cell surface receptors. SLAMF7 is expressed in NK cells, activated B-cells, NK-cell line but not in promyelocytic, B- cell lines, or T-cell lines. The cytoplasmic domain of SLAMF7 contains immunoreceptor tyrosine-based switch motifs (ITSM), which enables to recruit signaling lymphocyte activation molecule (SLAM)-associated protein (SAP/ SH2D1A). SLAMF7 may play a role in the regulation of B lymphocyte proliferation during immune responses. SLAMF7 is implicated in the activation of NK cell-mediated cytotoxicity. SLAMF7 positively regulated natural killer cell functions by a mechanism dependent on the adaptor EAT-2 but not the related adaptor SAP. In the absence of EAT-2, SLAMF7 potentially inhibited natural killer cell function. SLAMF7 was also inhibitory in T cells, which are typically devoid of EAT-2. Thus, SLAMF7 can exert activating or inhibitory influences on cells of the immune system depending on cellular context and the availability of effector proteins.
Specificity	Mouse SLAMF7 / CRACC. Has cross-reactivity in ELISA with human SLAMF7 / CRACCM; No cross-reactivity in ELISA with human cell lysate (293 cell line)

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Immunogen	Recombinant mouse SLAMF7 protein
Isotype	Rabbit IgG
Clone	A004
Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect mouse SLAMF7 in WB. Using a DAB detection system, the detection limit for mouse SLAMF7 is approximately 0.25 ng/lane under non-reducing conditions. Use of this antibody under reducing conditions is not recommended. Direct ELISA: This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse SLAMF7. The detection limit for mouse SLAMF7 is approximately 0.00245 ng/well
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant mouse SLAMF7 extracellular domain
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Slamf7 SLAM family member 7 [<i>Mus musculus</i>]
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Official Symbol	Slamf7
Synonyms	SLAMF7; SLAM family member 7; novel Ly9; leukocyte cell-surface antigen; 19A; CS1; 19A24; CRACC; 4930560D03Rik;
Gene ID	75345
mRNA Refseq	NM_144539
Protein Refseq	NP_653122
Function	protein binding; receptor activity;

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