

Human SLAM family member 7 (SLAMF7) ELISA Kit

Catalog No: #EK7323



Package Size: #EK7323-1 48T #EK7323-2 96T

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Description

Product Name	Human SLAM family member 7 (SLAMF7) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	19A; CD319; CRACC; CS1; 19A24 protein CD2-like receptor activating cytotoxic cells novel LY9 (lymphocyte antigen 9) like protein
Accession No.	Q9NQ25
Uniprot	Q9NQ25
GenID	57823;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.055 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate SLAMF7 in samples. An antibody specific for SLAMF7 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySLAMF7 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLAMF7 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SLAMF7 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Sequence analysis predicted that the 335-amino acid transmembrane protein has a 225-residue extracellular domain, which has 7 putative N-linked glycosylation sites, and an 85-amino acid cytoplasmic domain, which contains 2 of the consensus tyrosine motifs and a third C-terminal tyrosine motif that has phe instead of thr.

Functional analysis indicated that CRACC mediates lysis that is in addition to that mediated by NKP46 or CD16. Further analysis determined that, unlike CD244, cytotoxicity mediated by CRACC or NKP46 is SAP-independent and that CRACC triggers ERK activation. Immunoblot analysis showed that CRACC is tyrosine phosphorylated in activated NK cells and is associated with 19- and 39-kD proteins.

Note: This product is for in vitro research use only