

Active Recombinant Human SLAMF7 protein, Fc/Avi-tagged, Biotinylated

Cat. No. SLAMF7-051H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Human SLAMF7(Ser23-Met226) protein, fused to Fc/Avi tag at the C-terminus, was expressed in HEK293 cells .
Species	Human
Source	HEK293
ProteinLength	Ser23-Met226
Description	CD2-like receptor activating cytotoxic cells (CRACC), also known as CS1, novel Ly9, SLAMF7, and CD319, is a type I transmembrane glycoprotein in the SLAM subgroup of the CD2 family (1). Mature human CRACC consists of an extracellular domain (ECD) with one Ig-like V-set domain and one Ig-like C2-set domain, a transmembrane segment, and a cytoplasmic domain with one immunoreceptor tyrosine-based switch motif (ITSM) (2, 3). Within the ECD, human CRACC shares 54% and 52% amino acid sequence identity with mouse and rat CRACC, respectively. There are seven known isoforms of CRACC which are distinguished by deletions and/or substitutions in both their ECD and cytoplasmic domains. CRACC is expressed on the surface of NK cells, CD8+ T cells, activated B cells, and mature dendritic cells (4, 5). Its homophilic interaction induces NK, CTL, and B cell activation (4-7). In human NK cells, activated CRACC transmits signals following association with the adaptor protein EAT-2 (8).Our Avi-tag Biotinylated Recombinant Human CRACC/SLAMF7 features biotinylation at a single site contained within the Avi-tag, a unique 15 amino acid peptide. Protein

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orientation will be uniform when bound to streptavidin-coated surface due to the precise control of biotinylation and the rest of the protein is unchanged so there is no interference in the protein's bioactivity.

Predicted N Terminal	Ser23
Form	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Bio-activity	The biotin to protein ratio is greater than 0.7 as determined by the HABA assay.
Molecular Mass	65-85 kDa, under reducing conditions
Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Applications	Binding Activity, Bioactivity
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 200 µg/mL in PBS.
Conjugation	Biotin

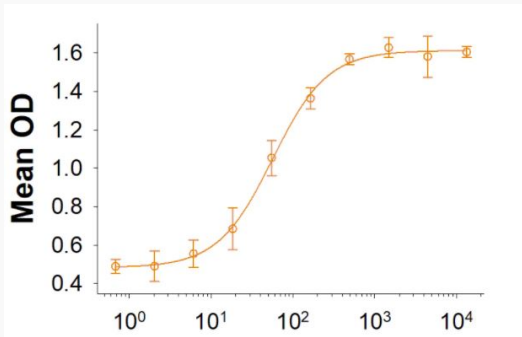
GENE INFORMATION

Gene Name SLAMF7 SLAM family member 7 [Homo sapiens]

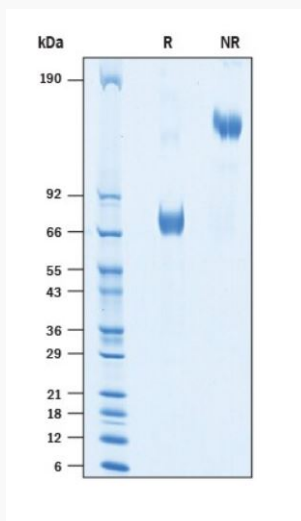
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Official Symbol	SLAMF7												
Synonyms	SLAMF7; SLAM family member 7; 19A; CD319; CRACC; CS1; protein 19A; CD2 subset 1; 19A24 protein; membrane protein FOAP-12; CD2-like receptor activating cytotoxic cells; CD2-like receptor-activating cytotoxic cells; novel LY9 (lymphocyte antigen 9) like protein;												
Gene ID	57823												
mRNA Refseq	NM_021181												
Protein Refseq	NP_067004												
MIM	606625												
UniProt ID	Q9NQ25												
Binding Activity	 <table border="1"> <caption>Approximate data points from the Binding Activity graph</caption> <thead> <tr> <th>Concentration (X-axis)</th> <th>Mean OD (Y-axis)</th> </tr> </thead> <tbody> <tr><td>10⁰</td><td>0.50</td></tr> <tr><td>10¹</td><td>0.60</td></tr> <tr><td>10²</td><td>1.35</td></tr> <tr><td>10³</td><td>1.55</td></tr> <tr><td>10⁴</td><td>1.60</td></tr> </tbody> </table>	Concentration (X-axis)	Mean OD (Y-axis)	10 ⁰	0.50	10 ¹	0.60	10 ²	1.35	10 ³	1.55	10 ⁴	1.60
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SDS-PAGE



2 µg/lane Protein was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie® Blue staining.