



Recombinant Human SLAF7 Fc-Fusion Protein

Cat No: Pr00180-10.9

Product Summary

Description: Recombinant human SLAF7 Fc-Fusion Protein manufactured using [AbAb's Recombinant Platform](#)

Protein: Human SLAF7

Fc domain: Human IgG1

Structure / Form: Disulfide-linked homodimer

Species: Human

Construct Design Note(s): The extracellular domain of SLAF7 has been fused to the Fc domain of human IgG1.

Host: HEK293

UniProt Accession Number: Q9NQ25

Alternative Description: SLAM family member 7, CD2 subset 1, CD2-like receptor-activating cytotoxic cells, CRACC, Membrane protein FOAP-12, Novel Ly9, Protein 19A, CD319; SLAF7-Ig; SLAF7-Fc chimera; SLAF7 (Fc tag)

Published Application(s):

Tested Applications(s):

Activity: 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. Isoform 1 mediates NK cell activation through a SH2D1A-independent extracellular signal-regulated ERK-mediated pathway [PMID:11698418]. Positively regulates NK cell functions by a mechanism dependent on phosphorylated SH2D1B. Downstream signaling implicates PLCG1, PLCG2 and PI3K [PMID:16339536]. In addition to heterotypic NK cells-target cells interactions also homotypic interactions between NK cells may contribute to activation. However, in the absence of SH2D1B, inhibits NK cell function. Acts also inhibitory in T-cells (By similarity). May play a role in lymphocyte adhesion [PMID:11802771]. In LPS-activated monocytes negatively regulates production of proinflammatory cytokines [PMID:23695528] [Uniprot].

Product Form

Purification: IMAC purified

Supplied in: 0.1 mg size: PBS with preservative (0.02% Proclin 300), 1 mg size: PBS only.

Endotoxin: <1.0 EU/mg

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals

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Shipping: The product is shipped on blue ice. Upon receipt, store it immediately at the temperature recommended.

Storage Recommendation: Store at 4°C for up to 1 month. For longer term storage aliquot in small volumes and store at -20°C. Avoid repeated freeze-thaw cycles.

SDS PAGE Purity: >95%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.

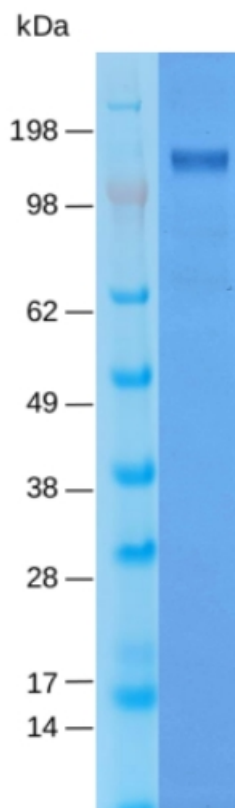
Fc-Fusion Sequence (monomer)

SGPVKELVGSVGGAVTFPLKSKVKQVDSIVWTFNTTPLVTIQPEGGTIIVTQNRNRERVDFFPDGGYSLKLSKLLKKNDSGI
YYVGIYSSSLQQPSTQEYVLHVYEHLSKPKVMTMGLQSNKNGTCVTNLCCMEHGEEVDIYTWKALGQAANESHNGSIL
PISWRWGESDMTFICVARNPVSRNFSSPILARKLCEGAADDPDSSMVLLCGGGGSEPKSQDKTHTCPPCPAPPELLGG
PSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWL
NGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKT
TPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGHHHHHH

Underlined amino acids sequence include a G4S linker and 6xHis epitope tag, respectively.

Calculated Molecular weight (dimer): 99855 Da

Extinction coefficient: 137480 (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).



SLAF7 (Pr00180-10.9) SDS-PAGE. Pr00180-10.9 under non-reducing conditions resolved by SDS-PAGE and stained using Coomassie-Blue.

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