



### Recombinant Human SLAF6 Fc-Fusion Protein

Cat No: Pr00188-10.9

## Product Summary

**Description:** Recombinant human SLAF6 Fc-Fusion Protein manufactured using [AbAb's Recombinant Platform](#)

**Protein:** Human SLAF6

**Fc domain:** Human IgG1

**Structure / Form:** Disulfide-linked homodimer

**Species:** Human

**Construct Design Note(s):** The extracellular domain of SLAF6 has been fused to the Fc domain of human IgG1.

**Host:** HEK293

**UniProt Accession Number:** Q96DU3

**Alternative Description:** SLAM family member 6, Activating NK receptor, NK-T-B-antigen, NTB-A, CD352; SLAF6-Ig; SLAF6-Fc chimera; SLAF6 (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. Triggers cytolytic activity only in natural killer cells (NK) expressing high surface densities of natural cytotoxicity receptors [PMID:11489943, PMID:16920955]. Positive signaling in NK cells implicates phosphorylation of VAV1. NK cell activation seems to depend on SH2D1B and not on SH2D1A [PMID:16920955]. In conjunction with SLAMF1 controls the transition between positive selection and the subsequent expansion and differentiation of the thymocytic natural killer T (NKT) cell lineage (By similarity). Promotes T-cell differentiation into a helper T-cell Th17 phenotype leading to increased IL-17 secretion; the costimulatory activity requires SH2D1A [PMID:22184727, PubMed:16920955]. Promotes recruitment of RORC to the IL-17 promoter [PMID:22989874]. In conjunction with SLAMF1 and CD84/SLAMF5 may be a negative regulator of the humoral immune response. In the absence of SH2D1A/SAP can transmit negative signals to CD4+ T-cells and NKT cells. Negatively regulates germinal center formation by inhibiting T-cell:B-cell adhesion; the function probably implicates increased association with PTPN6/SHP-1 via ITSMs in absence of SH2D1A/SAP. However, reported to be involved in maintaining B-cell tolerance in germinal centers and in preventing autoimmunity (By similarity) [Uniprot].

## Product Form

**Purification:** IMAC purified

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

Cat No: Pr00188-10.9 Recombinant Human SLAF6 Fc-Fusion Protein  
**Supplied in:** 0.1 mg size: PBS with preservative (0.02% Proclin 300), 1 mg size: PBS only.

**Endotoxin:** <1.0 EU/mg

**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.

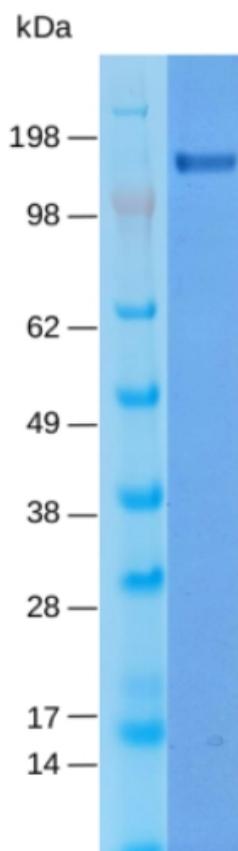
**Fc-Fusion Sequence (monomer)**

QSSLTPLMVNGILGESVTLPLEFPAGEKVNFIWLFNETSLAFIVPHETKSPEIHVTNPKQGKRLNFTQSYSLQLSNLKM  
EDTGSYRAQISTKTSACLSSYTLRILRQLRNIQVTNHSQLFQNMTCELHLTCSVEDADDNVSRWEALGNTLSSQPNLT  
VSWDPRISSEQDYTCIAENAVSNLSFSVSAQKLCEDVKIQYTDTKMGGGGSEPKSQDKTHTCPPCPAPELLGGPSVFL  
FPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEY  
KCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPVL  
DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGHHHHHH

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

**Calculated Molecular weight (dimer):** 100365 Da

**Extinction coefficient:** 120220 (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).



**SLAF6 (Pr00188-10.9) SDS-PAGE.** Pr00188-10.9 under non-reducing conditions resolved by SDS-PAGE and stained using Coomassie-Blue.

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