

PRODUCT INFORMATION

SLAMF1 **Target**

Synonyms SLAM family member 1;CD150;Slamf1

Recombinant mouse SLAMF1 protein with C-**Description**

terminal human Fc tag

Delivery In Stock **Uniprot ID** Q9QUM4 **Expression Host HEK293**

Tag C-Human Fc Tag

Molecular

Purity

Mouse SLAMF1(Met30-Pro242) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of 49.9 kDa after removal of the signal peptide. The apparent molecular mass of mSLAMF1-hFc is **Molecular Weight**

approximately 55-70 kDa due to glycosylation. The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Formulation & Reconstitution

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

témperature.



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Cat. No. PME-M100058



Background

Self-ligand receptor of the signaling lymphocytic activation molecule (SLAM) family. SLAM receptors triggered by homo- or heterotypic cellcell 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. SLAMF1-induced signal-transduction events in T-lymphocytes are different from those in B-cells. Two modes of SLAMF1 signaling seem to exist: one depending on SH2DIA (and perhaps SH2D1B) and another in which protein-tyrosine phosphatase 2C (PTPN11)-dependent signal transduction operates. Initially it has been proposed that association with SH2DIA prevents binding to inhibitory effectors including INPP5D/SHIP1 and PTPN11/SHP-2 (By similarity). However, signaling is also regulated by SH2D1A which can simultaneously interact with and which can simultaneously interact with and recruit FYN which subsequently phosphorylates and activates SLAMF1 (By similarity). Mediates IL-2-independent proliferation of activated T-cells during immune responses and induces IFN-gamma production (PubMed:9126961, PubMed:12351401). Downstreaming signaling involves INPP5D, DOK1 and DOK2 leading to inhibited IFN-gamma production in T-cells, and PRKCQ, BCL10 and NFKB1 leading to increased T-cell activation and Th2 cytokine production (PubMed:11477403, PubMed:16847311, PubMed:15539155). Promotes T-cell receptor-induced IL-4 secretion by CD4() cells (PubMed:15123745). Inhibits antigen receptor-mediated production of IFN-gamma, but not IL-2, mediated production of IFN-gamma, but not IL-2, in CD4(-)/CD8(-) T-cells (PubMed:11477403). Required for IL-4 production by germinal centers T follicular helper (T(Fh))cells (PubMed:20525889). May inhibit CD40-induced signal transduction in monocyte-derived dendritic cells (By similarity). May play a role in allergic responses and may regulate allergen-induced Th2 cytokine and Th1 cytokine secretion (PubMed:16528012). In conjunction with SLAMF6 controls the transition between positive selection and the subsequent expansion and differentiation of the thymocytic natural killer T (NKT) cell lineage (PubMed:18031695). Involved in the peripheral differentiation of indifferent natural killer T (iNKT) cells toward a regulatory NKT2 type (PubMed:18606638). In macrophages involved in down-regulation of IL-12, TNF-alpha and nitric oxide in response to lipopolysaccharide (LPS) (PubMed:15123745). In B-cells activates the ERK signaling pathway independently of SH2D1A but implicating both, SYK and INPP5D, and activates Akt signaling dependent on SYK and SH2D1A (PubMed:15315965). In conjunction with CD84/SLAMF5 and SLAMF6 may be a negative regulator of the humoral immune response (PubMed:25926831).[UniProtKB/Swiss-Prot Function]

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Usage

Research use only

Conjugate

Unconjugated

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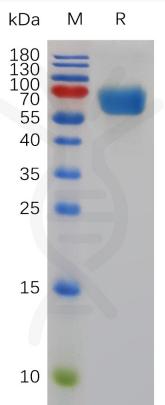


Figure 1. Mouse SLAMF1 Protein, hFc Tag on SDS-PAGE under reducing condition.

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