

CD150/SLAMF1 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P72413
Synonyms:	Signaling Lymphocytic Activation Molecule; CDw150; IPO-3; CD150; SLAMF1; SLAM
Species:	Human
Source:	HEK293
Accession:	Q13291-1 (A21-P237)
Gene ID:	6504
Molecular Weight:	45-65 kDa

PROPERTIES

AA Sequence	<pre> A S Y G T G G R M M N C P K I L R Q L G S K V L L P L T Y E R I N K S M N K S I H I V V T M A K S L E N S V E N K I V S L D P S E A G P P R Y L G D R Y K F Y L E N L T L G I R E S R K E D E G W Y L M T L E K N V S V Q R F C L Q L R L Y E Q V S T P E I K V L N K T Q E N G T C T L I L G C T V E K G D H V A Y S W S E K A G T H P L N P A N S S H L L S L T L G P Q H A D N I Y I C T V S N P I S N N S Q T F S P W P G C R T D P S E T K P </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>CD150/SLAMF1, a self-ligand receptor belonging to the signaling lymphocytic activation molecule (SLAM) family, plays a pivotal role in modulating the activation and differentiation of various immune cells, thereby contributing to the intricate regulation and coordination of both innate and adaptive immune responses. The activities of CD150 are regulated by the presence or absence of small cytoplasmic adapter proteins, including SH2D1A/SAP and/or SH2D1B/EAT-2. CD150 induces distinct signal transduction events in T-lymphocytes compared to B-cells, involving two modes of signaling—one dependent on SH2D1A (and possibly SH2D1B) and another reliant on protein-tyrosine phosphatase 2C (PTPN11). CD150 mediates IL-2-</p>
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independent proliferation of activated T-cells, induces IFN-gamma production, and participates in downstream signaling pathways involving INPP5D, DOK1, DOK2, PRKCQ, BCL10, and NFKB1. Furthermore, it plays crucial roles in the differentiation of T follicular helper cells, the regulation of allergic responses, and the modulation of innate immune responses against Gram-negative bacteria in macrophages. Additionally, CD150 acts as a receptor for Measles virus, including isoform 4.

Caution: Product has not been fully validated for medical applications. For research use only.

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