

SLAMF2/CD48 Protein, Human (HEK293, mFc)

Cat. No.:	HY-P71091
Synonyms:	CD48 antigen; B-lymphocyte activation marker BLAST-1; BCM1 surface antigen; Leukocyte antigen MEM-102; TCT.1; CD48; BCM1; BLAST1
Species:	Human
Source:	HEK293
Accession:	P09326 (Q27-S220)
Gene ID:	962
Molecular Weight:	60-80 kDa

PROPERTIES

AA Sequence	<p> Q G H L V H M T V V S G S N V T L N I S E S L P E N Y K Q L T W F Y T F D Q K I V E W D S R K S K Y F E S K F K G R V R L D P Q S G A L Y I S K V Q K E D N S T Y I M R V L K K T G N E Q E W K I K L Q V L D P V P K P V I K I E K I E D M D D N C Y L K L S C V I P G E S V N Y T W Y G D K R P F P K E L Q N S V L E T T L M P H N Y S R C Y T C Q V S N S V S S K N G T V C L S P P C T L A R S </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
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>The SLAMF2/CD48 Protein, a glycosylphosphatidylinositol (GPI)-anchored cell surface glycoprotein, plays a pivotal role in immune cell regulation and activation by interacting through its N-terminal immunoglobulin domain with cell surface receptors, such as 2B4/CD244 or CD2. In T-cell signaling transduction, SLAMF2 associates with CD2, facilitating the efficient recruitment of the Src family protein kinase LCK and LAT to the TCR/CD3 complex, thereby promoting LCK phosphorylation and subsequent activation. Furthermore, SLAMF2 induces the phosphorylation of the cytoplasmic immunoreceptor tyrosine switch motifs (ITSMs) of CD244, initiating a cascade of signaling events that culminate in the formation of the immunological synapse and the directed release of cytolytic granules containing perforin and granzymes by T-lymphocytes and NK-cells.</p>
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Notably, SLAMF2 interacts directly with CD2, CD244, and LCK, highlighting its intricate involvement in immune cell function and signaling pathways.

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

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