

SLAMF2/CD48 Protein, Mouse (194a.a, HEK293, His)

Cat. No.:	HY-P72466
Synonyms:	CD48; BLAST1; BCM1; SLAMF2; SLAM Family Member 2
Species:	Mouse
Source:	HEK293
Accession:	Q18PH8 (F23-R216)
Gene ID:	12506
Molecular Weight:	45-50 kDa

PROPERTIES

AA Sequence	F Q G H S I P D I N A T T G S N V T L K I H K D P L G P Y K R I T W L H T K N Q K I L E Y N Y N S T K T I F E S E F K G R V Y L E E N D G A L H I S N V R K E D K G T Y Y M R V L R E T E N E L K I T L E V F D P V P K P S I E I N K T E A S T D S C H L R L S C E V K D Q H V D Y T W Y E S S G P F P K K S P G Y V L D L I V T P Q N K S T F Y T C Q V S N P V S S K N D T V Y F T L P C D L A R
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>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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