



Recombinant Protein Technical Manual

Recombinant Mouse SLAMF5/CD84 Protein (His Tag)(Active)
RPES4711

Product Data:

Product SKU: RPES4711

Size: 50µg

Species: Mouse

Expression host: HEK293 Cells

Uniprot: Q18PI6

Protein Information:

Molecular Mass: 24 kDa

AP Molecular Mass:

Tag: C-His

Bio-activity: Measured by its ability to bind biotinylated recombinant human SH2D1A in a functional ELISA.

Purity: > 97 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: SLAM family member 5; Cd84; Leukocyte differentiation antigen CD84; Signaling lymphocytic activation molecule 5; CD84; Ly-9B; SLAMF5; CD84 antigen; CD84 molecule; SLAM family member 5

Immunogen Information:

Sequence: Met 1-Val 221

Background:

The CD2 family receptors are type I transmembrane glycoproteins belonging to immunoglobulin (Ig) superfamily characterized by a membrane-proximal Ig constant 2 (C2) domain and a membrane-distal variable (V) domain that is responsible for ligand recognition. CD84, also known as LY9B and SLAMF5, is a homophilic member of the SLAM (signaling lymphocyte activation molecule) subfamily of the CD2 family. The SLAM family receptors mediate signal transduction through the interaction of its ITSM (immunoreceptor tyrosine-based switch motifs) in the intracellular region and the SH2 domain of adaptor molecules SAP (SLAM-associated protein) and EAT-2 (EWS-activated transcript 2), and accordingly modulate both adaptive and innate immune responses. The CD84-CD84 interaction was independent of its cytoplasmic tail. Thus, CD84 is its own ligand and acts as a costimulatory molecule. CD84 is expressed on cells from almost all hematopoietic lineages and on CD34+ hematopoietic progenitor cells, suggesting that CD84 serves as a marker for committed hematopoietic progenitor cells.