

32-13307: LY9 Human

Alternative Name : Lymphocyte Antigen 9, Signaling Lymphocytic Activation Molecule 3, Cell Surface Molecule Ly-9, SLAM Family Member 3, SLAMF3, CD229 Antigen, CD229, Hly9, MLY9, LY9.

Description

Source: Sf9, Baculovirus cells.

Sterile filtered colorless solution.

Lymphocyte Antigen 9, also known as LY9 is a member of the SLAM family of immunomodulatory receptors, LY9 interacts with the adaptor molecule SAP . LY9 plays a part in adhesion reactions between T lymphocytes and accessory cells via homophilic interaction. LY9 promotes T-cell differentiation into a helper T-cell Th17 phenotype which leads to increased IL-17 secretion; the costimulatory activity requires SH2D1A. Furthermore it also promotes recruitment of RORC to the IL-17 promoter. LY9 is implicated in the maintenance of peripheral cell tolerance through serving as a negative regulator of the immune response. LY9 disables autoantibody responses as well as inhibits IFN-gamma secretion by CD4(+) T-cells. Moreover, LY9 negatively regulate the size of thymic innate CD8(+) T-cells and the development of invariant natural killer T (iNKT) cells. Systemic Lupus Erythematosus is one of the diseases which are associated with LY9.Å

LY9 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 416 amino acids (48-454 aa) and having a molecular mass of 45.9kDa (Migrates at 40-57kDa on SDS-PAGE under reducing conditions).LY9 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount :	1 µg / 5 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	LY9 protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	ADLKDSAPTV VSGILGGSVT LPLNISVDTE IENVIWIGPK NALAFARPKE NVTIMVKSYL GRLDITKWSY SLCISNLTLN DAGSYKAQIN QRNFVETTEE EFTLFVYEQL QEPQVTMKS V KSENFSCNI TLMCSVKGAE KSVLYSWTPR EPHASESNGG SILTVSRTPC DPDLPICTA QNPVSRSSL PVHVGQFCTD PGASRGGTTG ETVVGVLGEP VTLPLALPAC RDTEKVVWLF NTSIISKERE EAATADPLIK SRDPYKNRVW VSSQDCSLKI SQLKIEDAGP YHAYVCSEAS SVTSMTHVTL LIYRRLRKP ITWSLRHSED GICRISLTCS VEDGGNTVMY TWTPLQKEAV VSQGESHLNV SWRSSENHPN LTCTASNPVS RSSHQFLSEN ICSGPERNTK HHHHHH