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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.Â
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 QRNFEVTTEE EFTLFVYEQL QEPQVTMKSV KVSENFSCNI TLMCSVKGAE KSVLYSWTPR EPHASESNGG SILTVSRTPC DPDLPYICTA QNPVSQRSSL PVHVGQFCTD PGASRGGTTG ETVVGVLGEP VTLPLALPAC RDTEKVVWLF NTSIISKERE EAATADPLIK SRDPYKNRVW VSSQDCSLKI SQLKIEDAGP YHAYVCSEAS SVTSMTHVTL LIYRRLRKPK ITWSLRHSED GICRISLTCS VEDGGNTVMY TWTPLQKEAV VSQGESHLNV SWRSSENHPN LTCTASNPVS RSSHQFLSEN ICSGPERNTK HHHHHH