9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

LY9 Human

Lymphocyte Antigen 9 Human Recombinant
RCP1286

Product Overview

Name	LY9 Human
Description	
Lymphocyte Antigen 9 Human Recombinant	
Accession (Primary)	Q9HBG7
Synonyms	
Lymphocyte Antigen 9, Signaling Lymphocytic Activation Molecule 3, Cell Surface Molecule Ly-9, SLAM Family Member 3, SLAMF3, CD229 Antigen, CD229, Hly9, MLY9, LY9.	
Introduction	
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.	
Source	
Sf9, Baculovirus cells.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
LY9 protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.	
Stability	
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.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	

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Amino acid sequence

ADL KDSAPTV 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

Precautions

LY9 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9HBG7)