

Recombinant human CD229/SLAMF3 protein

Catalog Number: ATGP3400

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

48-454aa

UniProt No.

Q9HBG7

NCBI Accession No.

NP_002339

Alternative Names

T-lymphocyte surface antigen Ly-9 isoform, LY9, CD229, hly9, mLY9, SLAMF3, CD229 Cell surface molecule Ly-9, Cell surface molecule Ly9, hly9, LY 9, Ly9, LY9_HUMAN, Lymphocyte antigen 9, mLY9, Signaling lymphocytic activation molecule 3, SLAM family member 3, SLAMF3, T lymphocyte surface antigen Ly9 precursor, T-lymphocyte surface antigen Ly-9

PRODUCT SPECIFICATION

Molecular Weight

45.9 kDa (416aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

LY9, as known as T-lymphocyte surface antigen Ly-9 isoform, is a type 1 transmembrane glycoprotein in the

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SLAM subgroup of the CD2 family. This protein consists of an extracellular domain with two Ig-like V-set and two Ig-like truncated C2-set domains. It is expressed on T and B cells, thymocytes, and more weakly on NK cells. Homophilic binding between LY9 molecules is mediated by the N-terminal Ig-like domain. Also, this protein knockout mice show minimally impaired immune responses, suggesting functional redundancy with other molecules. Recombinant human LY9, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

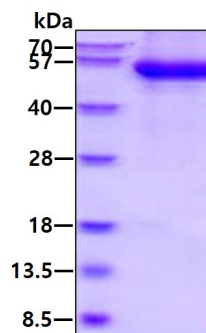
<ADL>KDSAPT VSGILGGSVT LPLNISVDTE IENVIWIGPK NALAFARPKE NVTIMVKSYL GRLDITKWSY SLCISNLT LN
DAGSYKAQIN QRNFEV TTEE EFTLFVYEQL QEPQVTMKS V KVS ENFSCNI TLMCSVKGAE KSVLYSWTPR EPHASESNGG
SILTVSRTPC DPDLPICTA QNPVSRSSL PVHVGQFCTD PGASRGGTTG ETVVGV LGEP VTLPLALPAC RDTEKVVWLF
NTSIISKERE EAATADPLIK SRDPYKNRVW VSSQDCSLKI SQLKIEDAGP YHAYVCSEAS SVTSMTHVTL LIYRRLRKP K
ITWSLRHSED GICRISLTCS VEDGGNTVMY TWTPLQKEAV VSQGESHLNV SWRSSENHPN LTCTASNPVS RSSHQFLSEN
ICSGPERNTK <HHHHHH>

General References

Hagberg N., et al. (2013) J. Immunol. 191:2989-2998.
Chatterjee M., et al. (2012) J. Biol. Chem. 287:38168-38177.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain