

LY9, 48-454aa, Human, His-tag, Baculovirus

Cat.NO.: TP02863

3th Edition

Synonyms:T-lymphocyte surface antigen Ly-9 isoform , LY9, CD229, hly9, mLY9, SLAMF3, CD229Cell surface molecule Ly-9, Cell surface molecule Ly9hly9, LY 9, Ly9, LY9_HUMAN.

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

Form:Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight:45.9kDa (416aa), 40-57kDa (SDS-PAGE under reducing conditions.)

Sequences:

ADLKDSAPTVVSGILGGSVTLPLNISVDTEIENVIWIGPKNALAFARPKENVTIMVKSYLGRDLITKWSYSLCISNLT
DAGSYKAQINQRNFEVTTEEEFTLVYEQQLQEPQVTMKSVKVSENFSCNITLMCSVKGAEKSVLYSWTPREPHASE
SNGGSILTVSRTPCDPLPYICTAQNPVSQRSSLPVHVGQFCTDPGASRGGTTGETVVGVLGEPVTLPLALPACRD
TEKVVWLFNTSIISKEREEAATADPLIKSRDPYKNRVWVSSQDCSLKISQLKIEDAGPYHAYVCSEASSVTSMTHTL
LIYRRLRKPKITWLSLRHSEGDICRISLTCSVEDGGNTVMYTWTPAQKEAVVSQGESHLNVSWRSSSENHPNLTCTAS
NPVSRSSHQFLSENICSGPERNTKHHHHHH

Purity:> 95% by HPLC

Concentration:0.25mg/ml (determined by Absorbance at 280nm)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.