

T-Lymphocyte Surface Antigen Ly-9 Recombinant Protein | Ly9 recombinant protein

Recombinant Mouse T-Lymphocyte Surface Antigen Ly-9 Protein

CATALOG #
AAA174603

HOST
Human Cells

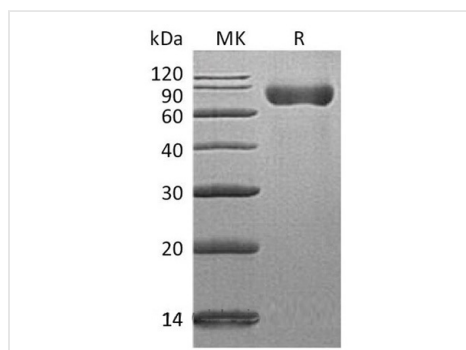
PRODUCT SYNONYMS

T-Lymphocyte Surface Antigen Ly-9; Recombinant Mouse T-Lymphocyte Surface Antigen Ly-9 Protein; T-lymphocyte surface antigen Ly-9; Cell surface molecule Ly-9; Lymphocyte antigen 9; SLAM family member 3; SLAMF3; Signaling lymphocytic activation molecule 3; CD229; Ly9; Ly-9; AI893573; Lgp100; T100; Ly9 recombinant protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Sequence Positions	Lys48-Phe454
Sequence Length	654
Species	Mouse
Endotoxin	<1.0 EU per µg as determined by LAL test.
Fragment	Met 1-Arg 453
Fusion Tag	C-6His
Accession	Q4VBG4
Reconstitution	We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized protein are stable for up to 12 months when stored at -20°C to -80°C. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Ly9 recombinant protein	>Background: CD229(SLAMF3) is a type I transmembrane glycoprotein in the SLAM subgroup of the CD2 family. Mature mouse CD229 consists of a 406 aa extracellular domain (ECD) with two Ig-like V-set and two Ig-like truncated C2-set domains, a 21 aa transmembrane segment, and a 180 aa cytoplasmic domain with two immunoreceptor tyrosinebased switch motifs ITSMs. Within the first two Ig-like domains that are common to all SLAM proteins, mouse CD229 shares 22%-36% aa sequence identity with mouse 2B4, BLAME, CD2F10,CD84, CRACC, NTBA, and SLAM. CD229 is expressed on T, B, and NK cells, thymocytes and monocytes. Homophilic binding between CD229 molecules is mediated by the N-terminal Ig-like domain. Human and mouse CD229 exhibit crossspecies binding. Antigen stimulation of lymphocytes induces CD229 clustering to sites of T cell-B cell contact. Antibody ligation of CD229 can inhibit T cell activation, but CD229 knockout mice show impaired T cell immune responses, suggesting a potential role for CD229 in T cell activation or costimulation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	111955338
NCBI GeneID	17085
NCBI Accession #	Q4VBG4
NCBI GenBank Nucleotide #	NM_008534.3
UniProt Accession #	Q01965; Q9ES29; Q9ES35; Q9ES36
Molecular Weight	Molecular Mass: 47kDa Actual Protein Molecular Mass: 65-75kDa
NCBI Official Full Name	T-lymphocyte surface antigen Ly-9 isoform 1
NCBI Official Synonym Full Names	lymphocyte antigen 9
NCBI Official Symbol	Ly9
NCBI Official Synonym Symbols	Ly-9; T100; CD229; Lgp100; SLAMF3; AI893573
NCBI Protein Information	T-lymphocyte surface antigen Ly-9
UniProt Protein Name	T-lymphocyte surface antigen Ly-9
UniProt Gene Name	Ly9
UniProt Synonym Gene Names	Ly-9; SLAMF3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.