

Recombinant Mouse Ly9 Protein, Myc/DDK-tagged

Cat. No. Ly9-3874M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length lymphocyte antigen 9 (Ly9), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Self-ligand receptor of the signaling lymphocytic activation molecule (SLAM) family. SLAM receptors triggered by homo- or heterotypic cell-cell interactions are modulating the activation and differentiation of a wide variety of immune cells and thus are involved in the regulation and interconnection of both innate and adaptive immune response. Activities are controlled by presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2. May participate in adhesion reactions between T lymphocytes and accessory cells by homophilic interaction. Promotes T-cell differentiation into a helper T-cell Th17 phenotype leading to increased IL-17 secretion; the costimulatory activity requires SH2D1A. Promotes recruitment of RORC to the IL-17 promoter. May be involved in the maintenance of peripheral cell tolerance by serving as a negative regulator of the immune response. May disable autoantibody responses and inhibit IFN-gamma secretion by CD4+ T-cells. May negatively regulate the size of thymic innate CD8+ T-cells and the development of invariant natural killer T (iNKT) cells. Can promote natural killer (NK) cell activation.
Molecular Mass	73.6 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ly9 lymphocyte antigen 9 [Mus musculus (house mouse)]
Official Symbol	Ly9
Synonyms	LY9; lymphocyte antigen 9; T-lymphocyte surface antigen Ly-9; cell surface molecule Ly-9; cell-surface molecule Ly-9; Ly-9; T100; CD229; Lgp100; SLAMF3; AI893573
Gene ID	17085
mRNA Refseq	NM_008534
Protein Refseq	NP_032560
UniProt ID	Q01965

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