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32-8949: Recombinant Mouse T-lymphocyte Surface Antigen Ly-9/SLAMF3/CD229 (C-6His)

Gene : Ly9
Uniprot ID : Q4VBG4

Description

Source: Human Cells.
MW :47kD.
Recombinant Mouse T-lymphocyte surface antigen Ly-9 is produced by our Mammalian expression system and the target gene encoding Lys48-Phe454 is expressed with a 6His tag at the C-terminus. 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.

Product Info

Amount :	10 µg / 50 µg
Content :	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
Storage condition :	Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. 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.
Amino Acid :	KETPPTVISGMLGGSVTFSLNISKDAEIEHITWNCPPKALALVSYKKDITILDKGYNGRLKVSEDGYSLYMSNLTK SDSGSYYAQINQKNVTLTTNKEFTLHIYEKLQKPQIIVESVTPSDTDSCTFTLICTVKGTKDSVQYSWTREDTHLN TYDGSHTLRVSQSVCDPDLPYTCKAWNPVSQNSSQPVRIWQFCTGASRRKTAAGKTVVGILGEPVTLPLEFRA TRATKNVVWVFNTSVISQERRGAATADSRRKPKGSEERRVRTSDQDQSLKISQLKMEDAGPYHAYVCSEASR DPSVRHFTLLVYKRLEKPSVTNSPVHMMNGICKVVLTCSVDGGGNNVTYTWMPLQNKAVMSQGKSHLNVSW ESGEHLPNFTCTAHNPVSNSSSQFSSGTICSGPERNKRFHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/Ã□Âµg (1 IEU/Ã□Âµg) as determined by LAL test.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.