

## 32-7877: Recombinant Human T-lymphocyte Surface Antigen Ly-9/SLAMF3/CD229 (C-6His)

**Gene :** LY9  
**Gene ID :** 4063  
**Uniprot ID :** Q9HBG7

### Description

Source: Human Cells.  
MW :45.6kD.

Recombinant Human T-lymphocyte Surface Antigen Ly-9 is produced by our Mammalian expression system and the target gene encoding Lys48-Lys454 is expressed with a 6His tag at the C-terminus. SLAMF3 (CD229) is a type I transmembrane glycoprotein in the SLAM subgroup of the CD2 family. Mature human SLAMF3 consists of a 407 amino acid (aa) extracellular domain (ECD) with two Ig-like V-set and two Ig-like truncated C2-set domains. The ECD of human SLAMF3 shares 57% - 59% aa sequence identity with mouse and rat SLAMF3. Within the first two Ig-like domains that are common to all SLAM proteins, human SLAMF3 shares 24% - 39% aa sequence identity with human 2B4, BLAME, CD2F-10, CD84, CRACC, NTB-A, and SLAM. It is expressed on T and B cells, thymocytes, and more weakly on NK cells. It 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. SLAMF3 may be involved in the maintenance of peripheral cell tolerance by serving as a negative regulator of the immune response. It also disable autoantibody responses and inhibit IFN-gamma secretion by CD4+ T-cells and negatively regulate the size of thymic innate CD8+ T-cells and the development of invariant natural killer T (iNKT) cells.

### 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 :** KDSAPT VVSGILGGSVTLPLNISVDTEIENVIWIGPKNALAFARPKENVTIMVKS YLGRDLITKWSYSLCISNLT LN DAGSYKAQINQRNFVETTEEEFTLFVYEQLEPQVTMKS VKVSENFSCNITLMCSVKGAEKSVLYSWTPREPHA SESNGGSILTVSRTPCDPDLPICTAQNPVSRSSLPVHVGVGFCTDPGASRGGTTGETVVGVLGEPVTLPLALP ACRDTEKVVWLFNTSIISKEREEAATADPLIKSRDPYKNRVWVSSQDCSLKISQLKIEDAGPYHAYVCSEASSVT SMTHVTLIIYRRLRKP KITWSLRHSEDGICRISLTCSVEDGGNTVMYTWTP LQKEAVVSQGESHLNVS WRSEEN HPNLTCTASNPVSRSSHQFLSENICSGPERNTKHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.