



## Monoclonal Anti-mouse SLAM/CD150 Antibody

### ORDERING INFORMATION

**Catalog Number:** MAB43301

**Clone:** 459905

**Lot Number:** CAQR03

**Size:** 100 µg

**Formulation:** 0.2 µm filtered solution in PBS  
with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** mouse SLAM

**Immunogen:** NS0-derived rmSLAM

**Ig class:** rat IgG<sub>1</sub>

**Recommended Application:**  
Western blot

**Other Application:**  
Direct ELISA

### Background

SLAM (signaling lymphocyte activation molecule; also CD150 and SLAMF1) is a 75 kDa member of the SLAM family of molecules. It is expressed on B cells, memory Th1 T cells, NK cells and dendritic cells. Mature mouse SLAM is a 319 amino acid (aa) type I transmembrane glycoprotein. It contains one V-type and one C2-type Ig-like domain in its extracellular region (aa 25 - 242) and three SH2 binding sites in its cytoplasmic domain (aa 266 - 343). One splice variant is known that shows a 34 aa substitution for the C-terminal 48 amino acids. This eliminates two SH2 binding sites. Over aa 25 - 242, mouse SLAM shares 57% aa identity with human SLAM.

### Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a rat immunized with purified, NS0-derived, recombinant mouse SLAM extracellular domain (rmSLAM; aa 25 - 242; Accession # Q9QUM4). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

### Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

### Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/mL.

### Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### Specificity

This antibody detects rmSLAM in direct ELISAs and Western blots. In these applications, this antibody shows no cross-reactivity with rhSLAM.

### Applications

**Western blot** - This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect mouse SLAM. Using a colorimetric detection system, the detection limit for rmSLAM is approximately 5 ng/lane under non-reducing and reducing conditions. Chemiluminescent detection will increase sensitivity by 5 to 50 fold.

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse SLAM. The detection limit for rmSLAM is approximately 1 ng/well.

**Optimal dilutions should be determined by each laboratory for each application.**