



Biotinylated Anti-human SLAM/CD150 Antibody

ORDERING INFORMATION

Catalog Number: BAF164

Lot Number: CCBN01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human SLAM
extracellular domain

Immunogen: NS0-derived rhSLAM
extracellular domain

Ig Type: sheep IgG

Application: Western blot

Background

SLAM (also IPO-3 and CD150) is a 70 - 80 kDa member of the CD2 family of molecules. It is a costimulatory receptor that mediates T cell activation via SAP. SLAM is found on B cells, dendritic cells, macrophages, stem cells and Th1 T cells. SLAM engages in homophilic interactions. Mature human SLAM is 315 amino acids (aa) in length. It is a type I transmembrane glycoprotein whose extracellular domain contains one V-type and one C2-type Ig-like domain (aa 21 - 237). There is a 77 aa SH2-binding cytoplasmic domain. Four potential splice variants are suggested. One shows a deletion of aa 234 - 263 (potentially soluble), while three others show aa substitutions; i.e.- a ten aa substitution for aa 289 - 335, a six aa substitution for aa 264 - 335 and a 20 aa substitution for aa 125 - 335 (potentially soluble). Over aa 1 - 236, human SLAM shares 60% aa identity with mouse SLAM.

Preparation

Produced in sheep immunized with purified, NS0-derived, recombinant human SLAM extracellular domain (rhSLAM; Accession # Q13291). Human SLAM specific IgG was purified by human SLAM affinity chromatography and then biotinylated.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 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 has been selected for use as a detection antibody in human SLAM Western blots.

Application

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human SLAM. The detection limit for rhSLAM is approximately 5 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows less than 5% cross-reactivity with rmSLAM, rhCD48, rhCD84 and rh2B4/CD244.

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

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