

Biotinylated Anti-mouse ESAM Antibody

ORDERING INFORMATION

Catalog Number: BAF2827

Lot Number: VRM01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: mouse ESAM extracellular domain

Immunogen: NS0-derived rmESAM extracellular domain

Ig Type: goat IgG

Applications: Western blot
Flow cytometry

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant mouse Endothelial cell-Selective Adhesion Molecule (rmESAM) extracellular domain. Mouse ESAM specific IgG was purified by mouse ESAM affinity chromatography and then biotinylated. ESAM is a 55 kDa type I transmembrane glycoprotein belonging to the CTX (cortical thymocyte marker in *Xenopus*) family of cell adhesion molecules within the immunoglobulin superfamily. Other family members are CXADR, CLMP, JAM-A-C, CD2, A33, and BT-IgSF. The extracellular region of ESAM contains one V-type and one C2-type Ig domain and is involved in homophilic adhesion. Mouse ESAM extracellular domain shares 69% amino acid sequence identity with the corresponding region of human ESAM. ESAM is expressed on endothelial cells, activated platelets and megakaryocytes and can be found associated with cell-to-cell junctions.

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 the applications listed below.

Applications

Western Blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse ESAM. The detection limit for rmESAM is approximately 5 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 5% cross-reactivity with rhESAM.

Flow Cytometry - This antibody has been tested on bEnd.3 cells for use in flow cytometry. Dilute this antibody to 50 µg/mL and add 10 µL of the diluted solution to 1 - 2.5 x 10⁵ cells in a total reaction volume not exceeding 200 µL. The binding of unlabeled antibodies may be visualized by adding 10 µL of a 25 µg/mL stock solution of a secondary developing reagent such as streptavidin conjugated to a fluorochrome.

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