



Biotinylated Anti-mouse JAM4/IGSF5 Antibody

ORDERING INFORMATION

Catalog Number: BAF3836

Lot Number: YOS01

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 JAM4

Immunogen: NS0-derived rmJAM4 (aa 16 - 140)

Ig Type: sheep IgG

Application: Western blot

Preparation

Produced in sheep immunized with purified, NS0-derived, recombinant mouse Junctional Adhesion Molecule 4 (rmJAM4; aa 16 - 140; Accession # AAH04806). This form is 270 aa in length. Mouse JAM4 specific IgG was purified by mouse JAM4 affinity chromatography and then biotinylated. JAM-4, also known as IGSF5, is a 93 kDa member of the CTX (Cortical Thymocyte Marker in *Xenopus*) subfamily of the Ig superfamily. It is a type I transmembrane protein with an N-terminal extracellular V-type and C2 type Ig domain separated by a J segment, a transmembrane domain and a cytoplasmic tail with a PDZ binding motif. JAM-4 is expressed in intestinal, renal, and mammary epithelial cells, spermatogonia, and hematopoietic stem cells. It is a cell adhesion molecule that mediates homophilic interaction. JAM-4 also interacts with the intracellular membrane-associated guanylate kinase inverted 1 (MAGI-1). An additional isoform containing a 100 residue insertion between Gln 125 and Asp 126 has been reported. Over the region used as immunogen, mouse JAM-4 shares 82% and 63% amino acid sequence identity with rat and human JAM-4, respectively.

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 mouse JAM4 Western blots.

Application

Western Blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect recombinant mouse JAM4. The detection limit for rmJAM4 is approximately 5 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows less than 1% cross-reactivity with rmJAM-A, rmJAM-B, and rmJAM-C.

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