



Biotinylated Anti-mouse IFITM3/Fragilis Antibody

ORDERING INFORMATION

Catalog Number: BAF3377

Lot Number: XHC01

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 IFITM3

Immunogen: *E. coli*-derived rmIFITM3 (aa 2 - 57)

Ig Type: goat IgG

Application: Western blot

Background

Mouse IFITM3/CD225 (also Fragilis) is a 137 amino acids (aa) 2-transmembrane protein that belongs to the Fragilis family of interferon-inducible genes. It contains two terminal extracellular domains (aa's 1 - 57 and 131 - 137) and one cytoplasmic region that potentially allows for multiple phosphorylations. The N-terminal extracellular region of mouse IFITM3 is 54%, 91% and 58% aa identical to the equivalent region in bovine, rat and human IFITM3, respectively. IFITM3 seems to be involved in primordial germ cell clustering and regionalization.

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant mouse IFITM3 (rmIFITM3; aa 2 - 57; Accession # Q9CQW9). Mouse IFITM3 specific IgG was purified by mouse IFITM3 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 mouse IFITM3 Western blots.

Application

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse IFITM3. The detection limit for rmIFITM3 is approximately 2 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 50% cross-reactivity with rhIFITM3.

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