



Biotinylated Anti-mouse Matrilin-4 Antibody

ORDERING INFORMATION

Catalog Number: BAF3380

Lot Number: XMH01

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 Matrilin-4

Immunogen: NS0-derived rmMatrilin-4

Ig Type: goat IgG

Application: Western blot

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant mouse Matrilin-4 (rmMatrilin-4; aa 22 - 624; Accession # O89029). Mouse Matrilin-4 specific IgG was purified by mouse Matrilin-4 affinity chromatography and then biotinylated. Matrilin-4 is a widely expressed secreted 73 kDa member of the Matrilin family of modular extracellular matrix proteins. Matrilins form homo- and heterotypic oligomers that mediate interactions between extracellular matrix components such as collagens and proteoglycans. Mouse Matrilin-4 contains an N-terminal von Willebrand factor A-like domain, four EGF domains, followed by another von Willebrand factor A-like domain and a C-terminal α -helix/coiled-coil region. Mature Mouse Matrilin-4 shows 90% amino acid identity with human Matrilin-4. A short mature isoform that lacks the N-terminal vWA domain also exists.

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 Matrilin-4 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 Matrilin-4. The detection limit for rmMatrilin-4 is approximately 5 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 15% cross-reactivity with rhMatrilin-4 and less than 2% cross-reactivity with rmMatrilin-2.

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