



Biotinylated Anti-human Matrilin-3 Antibody

ORDERING INFORMATION

Catalog Number: BAF3017

Lot Number: WQQ01

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 Matrilin-3

Immunogen: NS0-derived rhMatrilin-3

Ig Type: goat IgG

Application: Western blot

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant human Matrilin-3 (rhMatrilin-3; aa 29 - 486; Accession # O15232). Human Matrilin-3 specific IgG was purified by human Matrilin-3 affinity chromatography and then biotinylated. Human Matrilin-3 is a secreted, 50-60 kDa member of the matrilin family of noncollagenous extracellular matrix proteins. It contains an N-terminal von Willebrand Factor-A domain (vWFA) (aa 83 - 258), four EGF-like repeats (aa 264 - 431), and a C-terminal 25 aa α -helix/coiled-coil region. Matrilin-3 is cartilage specific and produced by chondrocytes. It forms both homotetramers and heterotetramers with Matrilin-1. The amino acid sequence of human Matrilin-3 is 73% identical to that of rat Matrilin-3.

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 Matrilin-3 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 Matrilin-3. The detection limit for rhMatrilin-3 is approximately 2 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 50% cross-reactivity with rmMatrilin-3 and less than 1% cross-reactivity with rhMatrilin-2 and rhMatrilin-4.

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