



Biotinylated Anti-human BMP-15 Antibody

ORDERING INFORMATION

Catalog Number: BAF2925

Lot Number: WOJ01

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 BMP-15

Immunogen: *E. coli*-derived rhBMP-15

Ig Type: goat IgG

Application: Western blot

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant mature human Bone Morphogenetic Protein 15 (rhBMP-15; aa 268 - 392; Accession # O95972). Human BMP-15 specific IgG was purified by human BMP-15 affinity chromatography and then biotinylated. Human BMP-15, also known as GDF-9B, is a member of the TGF-β superfamily. Mature BMP-15 has three intrachain disulfide bands that form a cysteine-knot fold. It is secreted as a 34 kDa non-disulfide-linked homodimer and as a 37 kDa nondisulfide heterodimer with GDF-9. BMP-15 is a product of oocytes and promotes granulosa cell proliferation and stem cell factor secretion. Mature human BMP-15 shares 54% aa sequence identity with mature human GDF-9. It also shares 70% and 78% aa sequence identity with mouse and sheep BMP-15, 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 human BMP-15 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 BMP-15. The detection limit for rhBMP-15 is approximately 5 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows less than 1% cross-reactivity with rhBMP-2, rhBMP-3, rhBMP-4, rhBMP-5, rhBMP-6, rhBMP-7, rhBMP-8 and rhBMP-10.

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

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