Anti-human BMP-3 Antibody

ORDERING INFORMATION

Catalog Number: AF113

Lot Number: FLJ02

Size: 100 μg

Formulation: 0.2 μm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human BMP-3

Immunogen: *E. coli*-derived rhBMP-3

Ig Type: goat IgG

Applications: Western blot
Immunohistochemistry
Direct ELISA

Preparation
Produced in goats immunized with purified, *E. coli*-derived, recombinant human bone morphogenetic protein 3 (rhBMP-3). Human BMP-3 specific IgG was purified by human BMP-3 affinity chromatography.

Formulation
Lyophilized from a 0.2 μm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Endotoxin Level
< 0.1 EU per 1 μg of the antibody as determined by the LAL method.

Reconstitution
Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 0.1 mg/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 its ability to recognize rhBMP-3 in the applications listed below.

Applications
Western blot - This antibody can be used at 0.1 - 0.2 μg/mL with the appropriate secondary reagents to detect human BMP-3 monomer. The detection limit for rhBMP-3 is approximately 20 ng/lane under reducing conditions.

Immunohistochemistry - This antibody will detect BMP-3 in cells and tissues. Antigen retrieval is recommended. The working dilution is 10 μg/mL. For chromogenic detection of labeling, use R&D Systems Cell and Tissue Staining Kits (CTS Series).

Direct ELISA - This antibody can be used at 0.5 - 1.0 μg/mL with the appropriate secondary reagents to detect monomeric human BMP-3. The detection limit for monomeric rhBMP-3 is approximately 2 ng/well. In this format, this antibody shows less than 1% cross-reactivity with rhBMP-2, rhBMP-4, rhBMP-5, rhBMP-6 and rhBMP-7. This antibody very weakly recognizes native dimeric BMP-3.

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

R&D Systems, Inc.
1-800-343-7475

3/10/08