



#### ORDERING INFORMATION

**Catalog Number:** AF1543

**Lot Number:** JPB01

**Size:** 100 µg

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

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** human BMP-3b

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

**Ig Type:** human BMP-3b specific goat IgG

**Applications:** Direct ELISA  
Western blot  
Immunohistochemistry

## ***Anti-human BMP-3b/GDF-10 Antibody***

### ***Preparation***

Produced in goats immunized with purified, *E. coli*-derived, recombinant human Bone Morphogenetic Protein 3b (rhBMP-3b). Human BMP-3b specific IgG was purified by human BMP-3b 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 0.5 mL of PBS is used, the antibody concentration will be 0.2 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 human BMP-3b in direct ELISAs and western blots.

### ***Applications***

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human BMP-3b. The detection limit for rhBMP-3b is approximately 2 ng/well. In this format, this antibody shows approximately 25% cross-reactivity with rhBMP-3 and less than 1% cross-reactivity with rhBMP-2, rhBMP-4, rhBMP-5, rhBMP-6 and rhBMP-7.

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human BMP-3b. The detection limit for rhBMP-3b is approximately 5 ng/lane and 25 ng/lane under non-reducing and reducing conditions, respectively.

**Immunohistochemistry** - This antibody will detect BMP-3b in cells and tissues. The working dilution is 15 µg/mL. For chromogenic detection of labeling, use R&D Systems' Cell and Tissue Staining Kits (CTS Series).

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