

## Product datasheet for **AP01113BT-N**

### **BMP7 Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	<b>Direct ELISA:</b> To detect BMP-7 by Direct ELISA (using 100 µl/well antibody solution) a concentration of ~1.0 µg/ml of this antibody is required. In conjunction with compatible secondary reagents, it allows the detection of at least 0.2-0.4 ng/well of recombinant Human BMP-7. <b>Sandwich ELISA:</b> To detect BMP-7 by Sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.25-1.0 µg/ml of this antibody is required. In conjunction with Polyclonal Anti-Human BMP-7 ( <i>Cat.-No</i> AP01113PU) as a capture antibody, it allows the detection of at least 0.2-0.4 ng/well of recombinant Human BMP-7. <b>Western Blot:</b> To detect BMP-7 by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Human BMP-7 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure (>98%) E.coli derived recombinant Human BMP-7 ( <i>Cat.-No</i> PA1006)
Specificity:	This antibody detects Human BMP7. Other species not tested.
Formulation:	PBS, pH 7.2 Label: Biotin State: Lyophilized (Sterile filtered) purified Ig fraction
Reconstitution Method:	Restore in sterile PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Centrifuge vial prior to opening.
Purification:	Affinity Chromatography
Conjugation:	Biotin



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<b>Storage:</b>	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	bone morphogenetic protein 7
<b>Database Link:</b>	<a href="#">Entrez Gene 655 Human P18075</a>
<b>Background:</b>	Bone Morphogenetic Protein 7 (BMP7), also known as osteogenic protein 1 (OP1), is produced from a DNA sequence encoding the human BMP2 signal peptide and human BMP2 propeptide (amino acid residues 1 to 282) fused to the human BMP7 mature subunit (amino acid residues 293 to 431). Mature human BMP7, generated after the proteolytic removal of the signal peptide and the propeptide, is a disulfide linked homodimeric protein, comprised of two 139 amino acid residue subunits. Bone Morphogenetic Proteins (BMP) are members of the TGF beta superfamily of cytokines that affect bone and cartilage formation. Similar to other TGF beta family proteins, BMPs are highly conserved across animal species.
<b>Synonyms:</b>	BMP-7, Bone morphogenetic protein 7, OP1, Osteogenic protein 1