

Product datasheet for **AP01113PU-S**

BMP7 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FN, WB
Recommended Dilution:	Neutralization: To yield one-half maximal inhibition [ND50] of the biological activity of Human BMP7 (100 ng/ml), a concentration of 0.40-0.60 µg/ml of this BMP7 antibody is required.
	Sandwich ELISA: To detect Human BMP7 by Sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5-2.0 µg/ml is required. The antigen affinity purified BMP7 antibody, in conjunction with Biotinylated antibody anti-Human BMP7 antibody (AP01113BT-N or AP01113BT-S) as a Detection antibody, allows the detection of at least 0.2-0.4 ng/well of recombinant Human BMP-7.
	Western Blot: To detect Human 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:	CHO cell derived recombinant highly pure (>98%) Human BMP-7.
Specificity:	Detects BMP7.
Formulation:	PBS, pH 7.2 without preservatives. State: Purified State: Lyophilized (Sterile filtered) purified Ig fraction.
Reconstitution Method:	Restore in sterile water to a concentration of 0.1-1.0 mg/ml.
Purification:	Affinity Chromatography using an immobilized Human BMP7 matrix.
Conjugation:	Unconjugated



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Storage:	Store the lyophilized antibody at -20°C. Following reconstitution it is stable for two weeks at 2-8°C. Frozen aliquots are stable for 6 months when stored at -20 °C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	bone morphogenetic protein 7
Database Link:	Entrez Gene 655 Human P18075
Background:	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.
Synonyms:	BMP-7, Bone morphogenetic protein 7, OP1, Osteogenic protein 1
Note:	Centrifuge vial prior to opening!