

Product datasheet for **AP11668PU-N**

BMP7 (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	ELISA: 1/1,000. Western blot: 1/50-1/200. Immunohistochemistry: 1/50-1/100. Immunofluorescence: 1/50-1/100.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This BMP7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of human Bmp7.
Specificity:	This antibody detects Bmp7 at N-term.
Formulation:	PBS with 0.09% (W/V) Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS
Conjugation:	Unconjugated
Storage:	Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. 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



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Background:

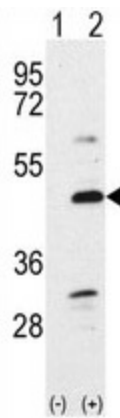
Bone Morphogenetic Protein 7 (BMP7), also known as osteogenic protein 1 (OP1), is produced from a DNA sequence encoding the human BMP2 signal peptide and human BMP2 propeptide (amino acid residues 1 to 282) fused to the human BMP7 mature subunit (amino acid residues 293 to 431). Mature human BMP7, generated 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:

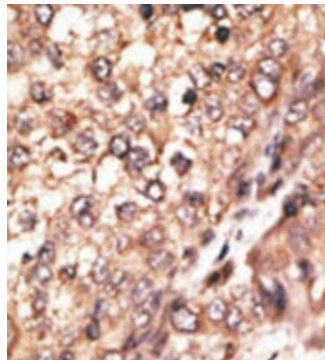
BMP-7, Bone morphogenetic protein 7, OP1, Osteogenic protein 1

Note:

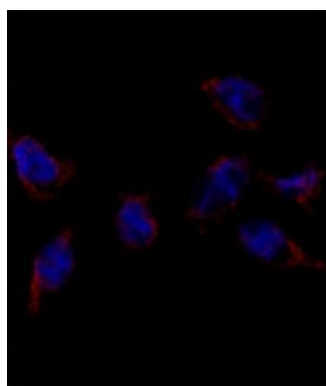
Molecular weight: 49313 Da

Product images:

Western blot analysis of Bmp7 (arrow) using rabbit polyclonal Bmp7 Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the Bmp7 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Immunofluorescence analysis of Bmp7 Antibody (N-term) in HeLa cells. 0.025 mg/ml primary antibody was followed by Alexa-Fluor-546-conjugated donkey anti-rabbit IgG (H+L). Alexa-Fluor-546 emits orange fluorescence. Blue counterstaining is DAPI.