

Product datasheet for **AP20577PU-N**

BMP6 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 125-170 of Human BMP-6.
Specificity:	This antibody detects endogenous levels of BMP-6 protein. (region surrounding Ala152)
Formulation:	Phosphate buffered saline (PBS), pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~42, 57 kDa
Gene Name:	bone morphogenetic protein 6
Database Link:	<u>Entrez Gene 12161 Mouse</u> <u>Entrez Gene 25644 Rat</u> <u>Entrez Gene 654 Human P22004</u>



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Background:

Bone morphogenic proteins (BMPs) are members of the TGFbeta superfamily. BMPs are involved in the induction of cartilage and bone formation. In vivo studies have shown that BMP-2 (also designated BMP-2A) and BMP-3 can independently induce cartilage formation. Smad3 association with the TGFbeta receptor complex and Smad1 translocation to the nucleus are observed after the addition of BMP-4 (also designated BMP-2B), suggesting that BMP-4 may play a role in activation of the Smad pathway. BMP-5, BMP-6 and BMP-7 all share high sequence homology with BMP-2, indicating that they each may be able to induce cartilage formation. BMP-8 (also designated OP-2) is thought to be involved in early development, as detectable expression has not been found in adult organs.

Synonyms:

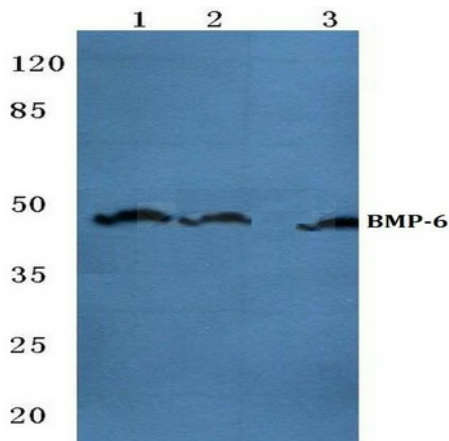
BMP-6, VGR, VGR1, Bone morphogenetic protein 6

Protein Families:

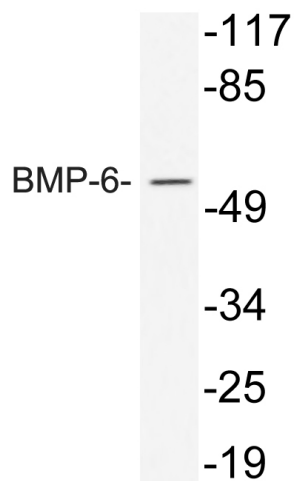
Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Secreted Protein, Stem cell relevant signaling - TGFb/BMP signaling pathway

Protein Pathways:

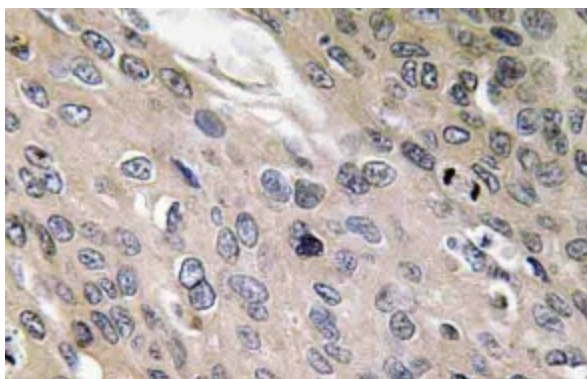
Hedgehog signaling pathway, TGF-beta signaling pathway

Product images:

Western blot (WB) analysis of BMP-6 antibody in extracts from 293 cells treated with TNF.



Western blot (WB) analysis of BMP-6 antibody at 1/500 dilution. Lane 1: Jurkat cell lysate. Lane 2: Raw264.7 cell lysate. Lane 3: PC12 whole cell lysate.



Immunohistochemistry (IHC) analyzes of BMP-6 antibody in paraffin-embedded human lung carcinoma tissue.