

BMP-4 Polyclonal Antibody

Catalog NumberPA5-27288

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Published species	Human, Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 287 of Human BMP4	Western Blot (WB)	1:500-1:3,000
		Immunocytochemistry (ICC/IF)	1:100-1:1,000
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Western Blot (WB)	See 1 publications below
Concentration	0.36 mg/mL	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Purification	Antigen affinity chromatography		
Storage buffer	PBS, pH 7, with 1% BSA, 20% glycerol		
Contains	0.025% ProClin 300		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: HepG2 conditioned medium, NIH-3T3, JC. Predicted reactivity: Mouse (97%), Rat (96%), Dog (97%), Pig (98%), Rabbit (96%), Sheep (98%), Bovine (97%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

The protein encoded by this gene is a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskelatal site. This particular family member plays an important role in the onset of endochondral bone formation in humans, and a reduction in expression has been associated with a variety of bone diseases, including the heritable disorder Fibrodysplasia Ossificans Progressiva. Alternative splicing in the 5' untranslated region of this gene has been described and three variants are described, all encoding an identical protein.

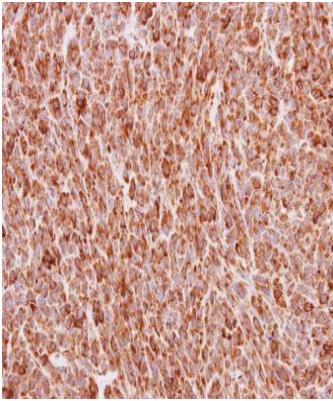
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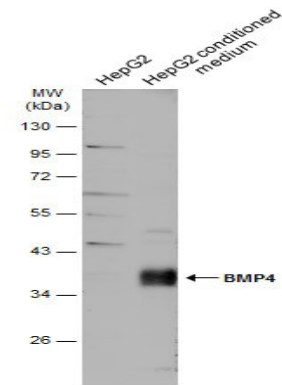
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Product Images For BMP-4 Polyclonal Antibody



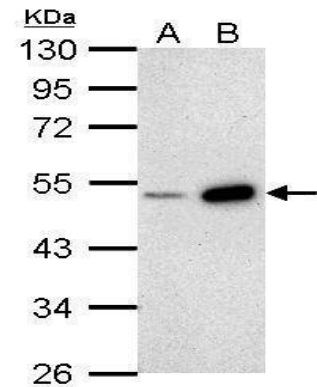
**BMP-4 Antibody (PA5-27288) in IHC (P)**

Immunohistochemical analysis of paraffin-embedded MDA-MB468 xenograft, using BMP4 (Product # PA5-27288) antibody at 1:100 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



**BMP-4 Antibody (PA5-27288) in WB**

Western blot analysis of BMP-4 was performed by separating 30 µg of HepG2 whole cell extract and conditioned medium by 10% SDS-PAGE. Proteins were transferred to a membrane and probed with a BMP-4 Polyclonal Antibody (Product # PA5-27288) at a dilution of 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



**BMP-4 Antibody (PA5-27288) in WB**

Western Blot using BMP-4 Polyclonal Antibody (Product # PA5-27288). Sample (30 µg of whole cell lysate). Lane A: NIH-3T3. Lane B: JC. 10% SDS PAGE. BMP-4 Polyclonal Antibody (Product # PA5-27288) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

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PubMed References For BMP-4 Polyclonal Antibody

1 Western Blot References

Species / Dilution	Summary
Human / 1:1000	<p>PA5-27288 was used in Western Blotting to suggest that the silencing of Runx2 could represent a novel strategy to impede the osteoblastic phenotypic shift of VIC and the ensuing progress of CAVD.</p> <p>Pharmaceutics ( 2020; 12: ) <b>"Nano-Polyplexes Mediated Transfection of Runx2-shRNA Mitigates the Osteodifferentiation of Human Valvular Interstitial Cells."</b> Author(s):Voicu G,Rebleanu D,Constantinescu CA,Fuior EV,Ciortan L,Droc I,Uritu CM,Pinteala M,Manduteanu I, Simionescu M,Calin M PubMed Article URL:<a href="http://dx.doi.org/10.3390/pharmaceutics12060507">http://dx.doi.org/10.3390/pharmaceutics12060507</a></p>

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