

# BMP-5 Polyclonal Antibody

Catalog # AP68684

## Product Information

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Application	WB, IHC-P
Primary Accession	<a href="#">P22003</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51737

## Additional Information

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Gene ID	653
Other Names	BMP5; Bone morphogenetic protein 5; BMP-5
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

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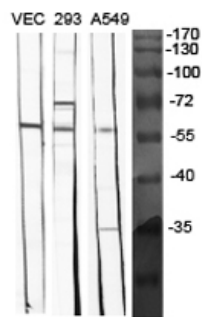
Name	BMP5
Function	Growth factor of the TGF-beta superfamily that plays essential roles in many developmental processes, including cartilage and bone formation or neurogenesis (PubMed: <a href="#">11580864</a> , PubMed: <a href="#">29321139</a> ). Initiates the canonical BMP signaling cascade by associating with type I receptor BMPRI1A and type II receptor BMPRI2 (PubMed: <a href="#">11580864</a> ). In turn, BMPRI1A propagates signal by phosphorylating SMAD1/5/8 that travel to the nucleus and act as activators and repressors of transcription of target genes (PubMed: <a href="#">11580864</a> , PubMed: <a href="#">29321139</a> ). Can also signal through non-canonical pathway such as MAPK p38 signaling cascade to promote chondrogenic differentiation (PubMed: <a href="#">20402566</a> ). Promotes the expression of HAMP, this is repressed by its interaction with ERFE (PubMed: <a href="#">30097509</a> ).
Cellular Location	Secreted.
Tissue Location	Expressed in the lung and liver.

## Background

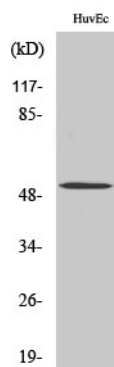
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Induces cartilage and bone formation.

Images



Western Blot analysis of various cells using BMP-5  
Polyclonal Antibody diluted at 1 : 1000



Western Blot analysis of HeLa cells using BMP-5  
Polyclonal Antibody diluted at 1 : 1000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.