

BMP-3A Polyclonal Antibody
Catalog # AP68683**Specification**

BMP-3A Polyclonal Antibody - Product Information

Application	WB
Primary Accession	P12645
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

BMP-3A Polyclonal Antibody - Additional Information**Gene ID** 651**Other Names**

BMP3; BMP3A; Bone morphogenetic protein 3; BMP-3; Bone morphogenetic protein 3A; BMP-3A; Osteogenin

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

BMP-3A Polyclonal Antibody - Protein Information**Name** BMP3**Synonyms** BMP3A**Function**

Growth factor of the TGF-beta superfamily that plays an essential role in developmental process by inducing and patterning early skeletal formation and by negatively regulating bone density. Antagonizes the ability of certain osteogenic BMPs to induce osteoprogenitor differentiation and ossification (PubMed:<[a href="http://www.uniprot.org/citations/11138004" target="_blank">11138004](http://www.uniprot.org/citations/11138004), PubMed:<[a href="http://www.uniprot.org/citations/15269709" target="_blank">15269709](http://www.uniprot.org/citations/15269709)). Initiates signaling cascades by associating with type II receptor ACVR2B to activate SMAD2-dependent and SMAD-independent signaling cascades including TAK1 and JNK pathways (PubMed:<[a href="http://www.uniprot.org/citations/31665064" target="_blank">31665064](http://www.uniprot.org/citations/31665064)).

Cellular Location

Secreted.

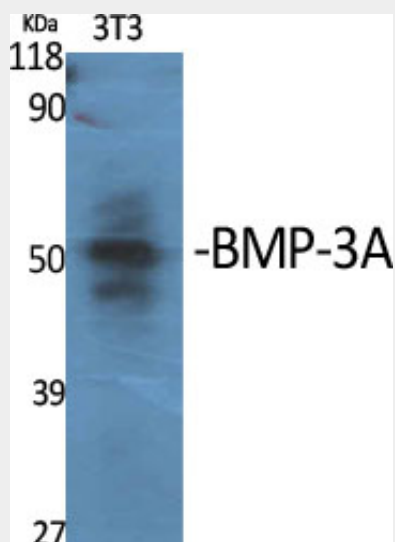
Tissue Location

Expressed in adult and fetal cartilage.

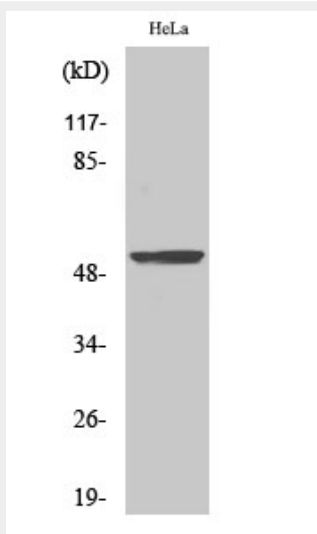
BMP-3A Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BMP-3A Polyclonal Antibody - Images

Western Blot analysis of various cells using BMP-3A Polyclonal Antibody



Western Blot analysis of HepG2 cells using BMP-3A Polyclonal Antibody

BMP-3A Polyclonal Antibody - Background

Negatively regulates bone density. Antagonizes the ability of certain osteogenic BMPs to induce osteoprogenitor differentiation and ossification.