

Rabbit BMP2 Polyclonal Antibody | anti-BMP2 antibody

Anti-BMP2 Antibody (C-Terminus) IHC-plus

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA12380	Rabbit	Chicken, Zebrafish, Pig, Rabbit, Mouse, Sheep, Bovine, Rat, Human	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

BMP2; Polyclonal Antibody; Anti-BMP2 Antibody (C-Terminus) IHC-plus; Rabbit Polyclonal to Human BMP2; Human BMP2; BDA2; BMP-2; BMP-2A; BMP2A; Bone morphogenetic protein 2; Bone morphogenetic protein 2A; anti-BMP2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Chicken, Zebrafish, Pig, Rabbit, Mouse, Sheep, Bovine, Rat, Human
Clonality	Polyclonal
Specificity	Recognizes endogenous levels of BMP2 protein.
Purity/Purification	Immunoaffinity purified
Form/Format	PBS, pH 7.3, 0.01% sodium azide, 30% glycerol.
Concentration	1mg/mL (varies by lot)
Sequence Length	396
Applicable Applications for anti-BMP2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	IHC-P (1:100) WB (1:500 - 1:1000) Optimal dilution to be determined by the researcher.
Target	BMP2
Immunogen	BMP2 antibody was raised against KLH-conjugated synthetic peptide encompassing a sequence within the C-Terminus of human BMP2.
Antigen Type	Synthetic peptide - KLH conjugated
FamilySubfamily	TGF beta / not-assigned TGFbeta
Immunogen Species	BMP2 Antibody was raised against Human
Epitope	C-Terminus
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol

The following protocol is a recommendation only, and AAA Biotech, Inc. makes no guarantee of the results:

Tissue Preparation:
Formalin fixation and embedding in paraffin wax.

Tissue Sectioning:
Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C.

Deparaffinization:
Wash dry slides in 3 changes of xylene - 5 minutes each @ RT

Rehydration:
Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT
Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT
Wash slides in 1 change of 80% alcohol - 3 minutes @ RT
Rinse slides in gentle running distilled water - 5 minutes @ RT

Antigen retrieval:
Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes
Remove from heat and let stand at room temperature in buffer - 20 minutes
Rinse in 1X TBS with Tween (TBST) -1 minute @ RT

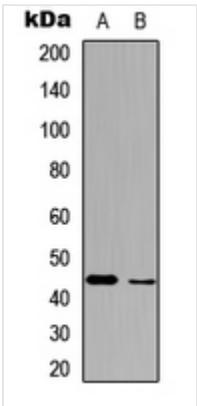
Immunostaining:
(Do not allow tissues to dry at any time during the staining procedure)
Apply a universal protein block - 20 minutes @ RT
Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT
Rinse slides in 1 X TBST - 1 minute @ RT
Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT
Rinse slides in 1X TBST -1 minute @ RT
Apply alkaline phosphatase streptavidin - 30 minutes @ RT
Rinse slides in 1X TBST -1 minute @ RT
Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT
Wash slides in distilled water - 1 minute @ RT

Dehydrate:
(This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB))
Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT
Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT
Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT
Wash slides in 3 changes of xylene - 1 minute each @ RT
Apply coverslip

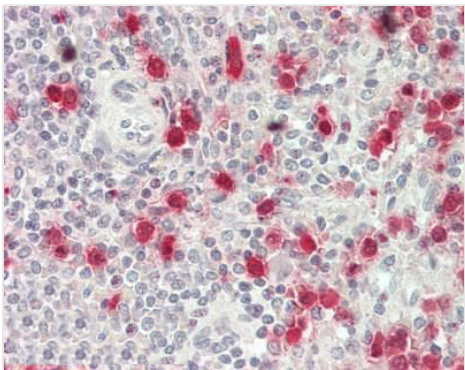
Preparation and Storage

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

IMAGES



WB (Western Blot)
Western blot analysis of BMP2 expression in HepG2 (A); HeLa (B) whole cell lysates.



IHC (Immunohistochemistry-Paraffin)
Human Spleen: Formalin-Fixed, Paraffin-Embedded (FFPE)

ADDITIONAL INFORMATION

Related Product Information for anti-BMP2 antibody	BMP2 Antibody, BDA2 Antibody, BMP-2 Antibody, BMP-2A Antibody, BMP2A Antibody, Bone morphogenetic protein 2 Antibody, Bone morphogenetic protein 2A Antibody Description: BMP2 belongs to the transforming growth factor-beta (TGFB) superfamily. Bone morphogenic protein induces bone formation. BMP2 is a candidate gene for the autosomal dominant disease of fibrodysplasia (myositis) ossificans progressiva.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557369
NCBI GeneID	650
NCBI Accession #	NP_001191.1
NCBI GenBank Nucleotide #	NM_001200.3
UniProt Accession #	P12643
NCBI Official Full Name	bone morphogenetic protein 2 preproprotein
NCBI Official Synonym Full Names	bone morphogenetic protein 2
NCBI Official Symbol	BMP2
NCBI Official Synonym Symbols	BDA2; BMP2A
UniProt Protein Name	Bone morphogenetic protein 2
UniProt Gene Name	BMP2
UniProt Synonym Gene Names	BMP2A; BMP-2; BMP-2A
UniProt Entry Name	BMP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/bmp2-antibody-immunohistochemistry-western-blot-elisa/12380>