

Product datasheet

Anti-BMP2 antibody ab82511

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Overview

Product name	Anti-BMP2 antibody
Description	Rabbit polyclonal to BMP2
Host species	Rabbit
Specificity	ab82511 detects only the pro-form of the BMP2
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Mouse, Human, Pig Predicted to work with: Donkey, Goat, Deer, Badger 
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human BMP2. Read Abcam's proprietary immunogen policy (Peptide available as ab90828 .)
Positive control	This antibody gave a positive signal in Caco2 whole cell lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab82511** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

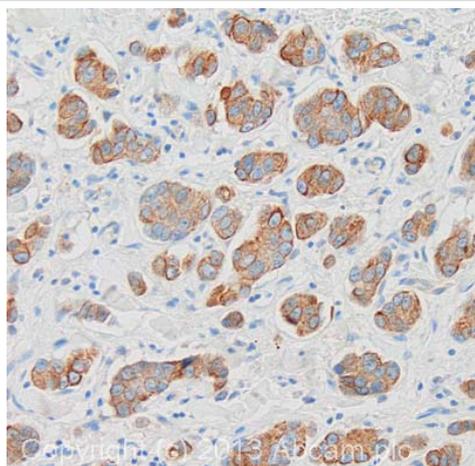
Application	Abreviews	Notes

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IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 46 kDa (predicted molecular weight: 44 kDa).
ICC/IF		Use a concentration of 5 µg/ml.

Target

Function	Induces cartilage and bone formation.
Tissue specificity	Particularly abundant in lung, spleen and colon and in low but significant levels in heart, brain, placenta, liver, skeletal muscle, kidney, pancreas, prostate, ovary and small intestine.
Sequence similarities	Belongs to the TGF-beta family.
Cellular localization	Secreted.

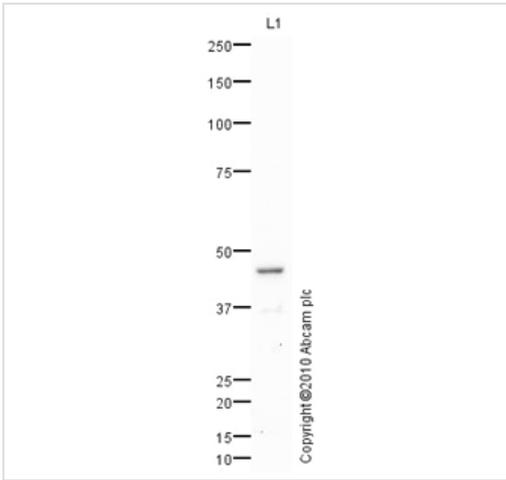
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BMP2 antibody (ab82511)

IHC image of BMP2 staining in human breast adenocarcinoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab82511, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - Anti-BMP2 antibody (ab82511)

Anti-BMP2 antibody (ab82511) at 1 µg/ml +
Caco 2 (Human colonic carcinoma cell line)
Whole Cell Lysate at 10 µg

Secondary

Goat polyclonal to Rabbit IgG - H&L - Pre-
Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

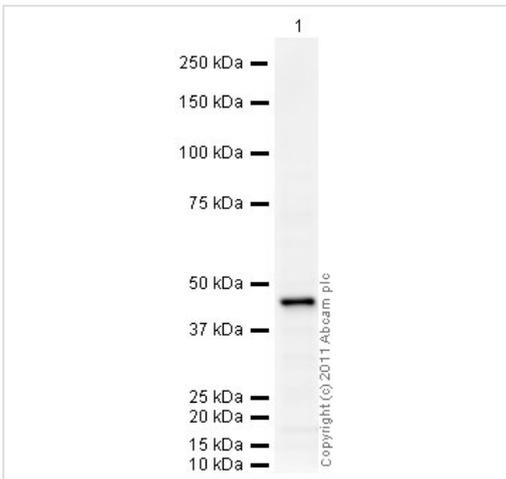
Performed under reducing conditions.

Predicted band size: 44 kDa

Observed band size: 46 kDa

Exposure time: 20 minutes

Bone morphogenetic protein 2 contains a number of potential glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted.



Western blot - Anti-BMP2 antibody (ab82511)

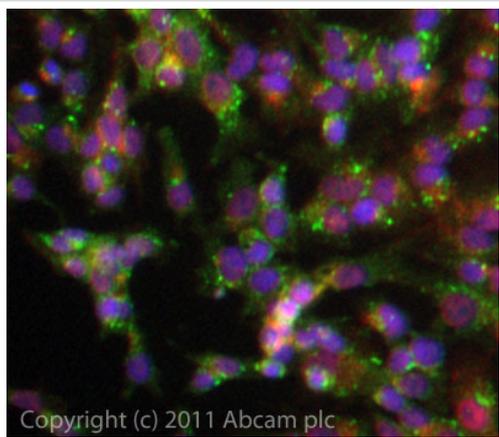
Anti-BMP2 antibody (ab82511) at 1 µg/ml +
Colon (Mouse) Tissue Lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed
([ab97080](#)) at 1/5000 dilution

Predicted band size: 44 kDa

Observed band size: 46 kDa



Immunocytochemistry/ Immunofluorescence - Anti-BMP2 antibody (ab82511)

ICC/IF image of ab82511 stained HepG2 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab82511, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899 Dylight 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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