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Datasheet for ABIN685642

## anti-BMP4 antibody (AA 251-350)

1 Image

1 Publication

### Overview

Quantity:	100 µL
Target:	BMP4
Binding Specificity:	AA 251-350
Reactivity:	Mouse, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMP4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from rat BMP4
Isotype:	IgG
Cross-Reactivity:	Mouse, Sheep
Predicted Reactivity:	Human,Rat
Purification:	Purified by Protein A.

### Target Details

Target:	BMP4
Alternative Name:	BMP4 ( <a href="#">BMP4 Products</a> )
Background:	Synonyms: BMP 4, BMP2B, BMP2B1, Bone morphogenetic protein 4, DVR4, ZYME,

## Target Details

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BMP4\_HUMAN, BMP-4, Bone morphogenetic protein 2B, BMP-2B.

Background: BMPs (bone morphogenetic proteins) belong to the TGF beta superfamily of structurally related signaling proteins. Members of this superfamily are widely represented throughout the animal kingdom and have been implicated in a variety of developmental processes. Proteins of the TGF beta superfamily are disulfide-linked dimers composed of two 12-15 kDa polypeptide chains. As implied by their name, BMPs initiate, promote and regulate bone development, growth, remodeling and repair. Smad1 translocation to the nucleus is observed after the addition of BMP4 (also designated BMP2B), suggesting that BMP4 may play a role in activation of the Smad pathway. BMP is secreted into the extracellular matrix.

Pathways: [Steroid Hormone Mediated Signaling Pathway](#), [Regulation of Muscle Cell Differentiation](#), [Tube Formation](#), [Skeletal Muscle Fiber Development](#)

## Application Details

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Application Notes: WB 1:300-5000  
ELISA 1:500-1000  
IHC-P 1:200-400

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

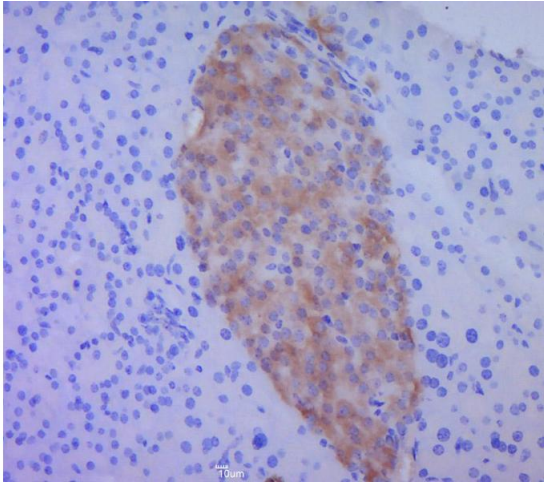
Expiry Date: 12 months

## Publications

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Product cited in: Wang, Zhao, Wang: "Umbilical cord blood cells regulate the differentiation of endogenous neural

stem cells in hypoxic ischemic neonatal rats via the hedgehog signaling pathway." in: **Brain research**, Vol. 1560, pp. 18-26, (2014) ([PubMed](#)).



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Paraformaldehyde-fixed, paraffin embedded mouse pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with BMP4 Polyclonal Antibody, Unconjugated (bs-1374R) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.