

Datasheet for ABIN730903
anti-BMP2 antibody (AA 283-365)

3 Images

12 Publications

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Overview

Quantity:	100 µL
Target:	BMP2
Binding Specificity:	AA 283-365
Reactivity:	Human, Rat, Mouse, Rabbit, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMP2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human BMP2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rabbit, Rat, Sheep
Predicted Reactivity:	Dog,Cow,Horse,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	BMP2
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Target Details

Alternative Name:	BMP2 (BMP2 Products)
Background:	<p>Synonyms: BDA2, BMP2A, Bone morphogenetic protein 2, BMP-2, Bone morphogenetic protein 2A, BMP-2A, BMP2</p> <p>Background: BMP2 belongs to the transforming growth factor-beta (TGFB) superfamily of secreted growth factors. It is a disulfide-linked homodimer and induces bone and cartilage formation. In addition to its osteogenic activity, BMP2 plays an important role in cardiac morphogenesis and is expressed in a variety of tissues including lung, spleen, brain, liver, prostate ovary and small intestine. The functional form of BMP2 is a 26 kDa protein composed of two identical 114 amino acid polypeptide chains linked by a single disulfide bond. BMPs control fundamental events in early embryonic development, organogenesis and adult tissue homeostasis.</p>
Gene ID:	650
UniProt:	P12643
Pathways:	Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process , Regulation of Muscle Cell Differentiation , Growth Factor Binding , Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

Handling

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

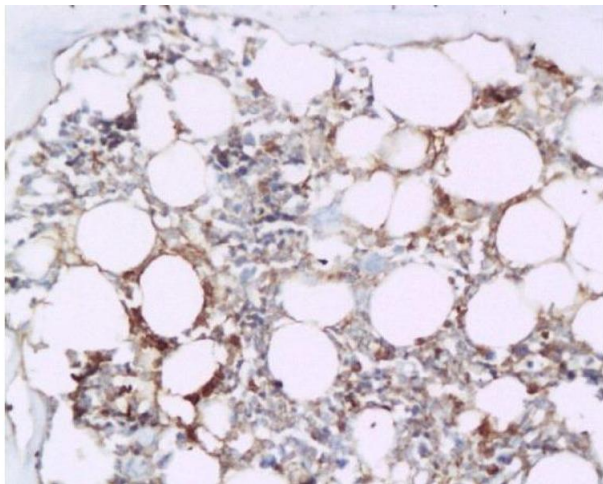
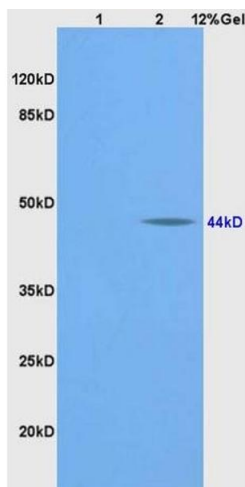
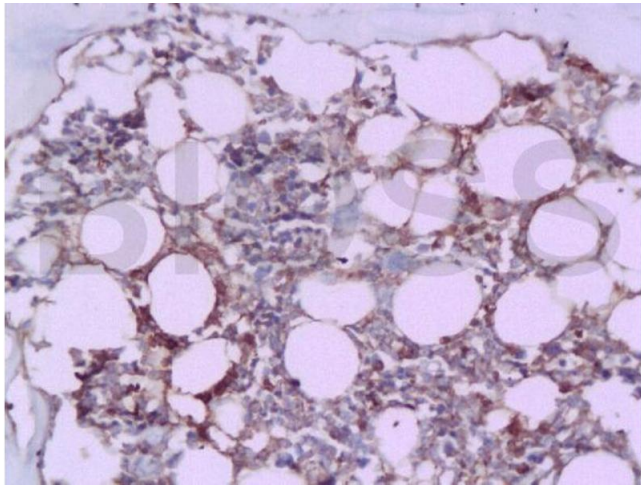
Product cited in: Wu, Jiang, Feng, Jiang, Cheng: "Negative Pressure Therapy in the Regeneration of the Sciatic Nerve Using Vacuum - Assisted Closure in a Rabbit Model." in: **Medical science monitor : international medical journal of experimental and clinical research**, Vol. 24, pp. 1027-1033, (2018) ([PubMed](#)).

Zhang, Wang, Shi, Wang, Lai, Yang, Chen, Yang: "Combination of simvastatin, calcium silicate/gypsum, and gelatin and bone regeneration in rabbit calvarial defects." in: **Scientific reports**, Vol. 6, pp. 23422, (2016) ([PubMed](#)).

Zhou, Yin, Jiang, Niu, Wan, Chen, Shen: "CBX7 deficiency plays a positive role in dentin and alveolar bone development." in: **Journal of molecular histology**, Vol. 47, Issue 4, pp. 401-11, (2016) ([PubMed](#)).

Sari, Rufaut, Jones, Sinclair: "Characterization of Ovine Dermal Papilla Cell Aggregation." in: **International journal of trichology**, Vol. 8, Issue 3, pp. 121-9, (2016) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat tibia tissue labeled with Anti-BMP2 Polyclonal Antibody, Unconjugated (ABIN730903) at 1:200 followed by conjugation to the secondary antibody and DAB staining

SDS-PAGE

Image 2. L1 mouse brain lysates L2 human colon carcinoma lysates probed with Anti BMP2 Polyclonal Antibody, Unconjugated (ABIN730903) at 1:200 overnight at 4 °C. Followed by conjugation to secondary antibody at 1:3000 for 90 min at 37 °C. Predicted band 44kD. Observed band size:44kD.

Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded rat tibia tissue labeled with Anti-BMP2 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining