Datasheet for ABIN2779569

anti-BMP7 antibody (N-Term)

4 Images | 8 Publications

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Overview

Quantity:	100 µL
Target:	BMP7
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Rabbit, Cow, Guinea Pig, Horse, Sheep, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMP7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human BMP7
Sequence:	QGKHNSAPMF MLDLYNAMAV EEGGGPGGQG FSYPYKAVFS TQGPPLASLQ
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 91%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 100%, Zebrafish: 82%
Characteristics:	This is a rabbit polyclonal antibody against BMP7. It was validated on Western Blot and immunohistochemistry.
Purification:	Protein A purified

Target Details

Target:	BMP7

Target Details

Alternative Name:	BMP7 (BMP7 Products)
Background:	The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, the BMP has a proposed role in early development. In addition, the fact that this BMP is closely related to BMP5 and BMP7 has lead to speculation of possible bone inductive activity.The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development. In addition, the fact that this BMP is closely related to BMP5 and BMP7 has lead to speculation of possible bone inductive activity. Alias Symbols: OP-1 Protein Interaction Partner: NOTCH2NL, KRTAP10-3, KRTAP10-8, KRTAP10-5, KRTAP10-7, MTUS2, TRIM27, KRTAP5-9, ACTN4, BMPR2, UBC, SMAD3, SOSTDC1, CHRDL2, GDF7, BMPR1B, NOG, ACVR2B, NCOA3, BMPR1A, ENG, ACVR2A, ACVR1, SMAD1, BMP7, Protein Size: 431
Molecular Weight:	49 kDa
Gene ID:	655
NCBI Accession:	NM_001719, NP_001710
UniProt:	P18075
Pathways:	Steroid Hormone Mediated Signaling Pathway, Stem Cell Maintenance

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 431 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:

Sun, Zhou, Liu, Zhang, Chen, Pan, Ma, Liu, Du, Yang, Wang: "Inhibition of breast cancer cell survival by Xanthohumol via modulation of the Notch signaling pathway in vivo and in vitro." in: **Oncology letters**, Vol. 15, Issue 1, pp. 908-916, (2018) (PubMed).

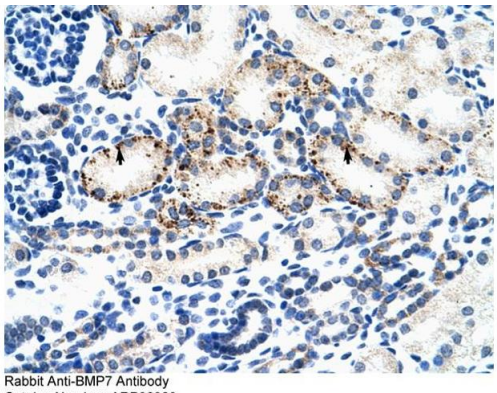
Natsumeda, Maitani, Liu, Miyahara, Kaur, Chu, Zhang, Kahlert, Eberhart: "Targeting Notch Signaling and Autophagy Increases Cytotoxicity in Glioblastoma Neurospheres." in: **Brain pathology (Zurich, Switzerland)**, Vol. 26, Issue 6, pp. 713-723, (2015) (PubMed).

Meng, Su, Liu, Wang, Wang: "Rac1 contributes to cerebral ischemia reperfusion-induced injury in mice by regulation of Notch2." in: **Neuroscience**, Vol. 306, pp. 100-14, (2015) (PubMed).

Ma, Mao, Shen, Zheng, Li, Liu, Ni: "Atractylenolide I-mediated Notch pathway inhibition attenuates gastric cancer stem cell traits." in: **Biochemical and biophysical research communications**, Vol. 450, Issue 1, pp. 353-9, (2014) (PubMed).

Asnaghi, Lin, Lim, Lim, Tripathy, Wendeborn, Merbs, Handa, Sodhi, Bar, Eberhart: "Hypoxia promotes uveal melanoma invasion through enhanced Notch and MAPK activation." in: **PLoS ONE**, Vol. 9, Issue 8, pp. e105372, (2014) (PubMed).

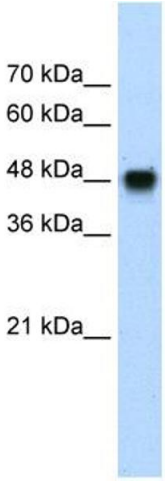
There are more publications referencing this product on: Product page



Rabbit Anti-BMP7 Antibody
Catalog Number: ARP32329
Lot Number: QC7380
Paraffin Embeded Tissue: Human Kidney
Cells with Positive label: Epithelial cells of renal tubule (Indicated with Arrows)
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X

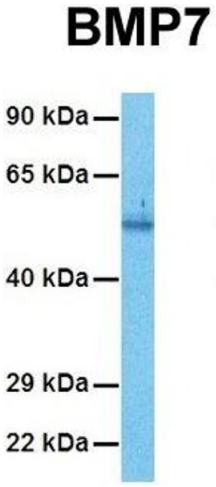
Immunohistochemistry

Image 1. Human kidney



Western Blotting

Image 2. WB Suggested Anti-BMP7 Antibody Titration: 1.25ug/ml ELISA Titer: 1:1562500 Positive Control: Transfected 293T



Western Blotting

Image 3. Host: Rabbit Target Name: BMP7 Sample Tissue: Human NCI-H226 Antibody Dilution: 1.0ug/ml

Please check the product details page for more images. Overall 4 images are available for ABIN2779569.