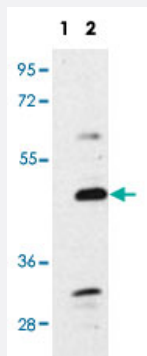


BMP7 polyclonal antibody

Catalog # PAB3676

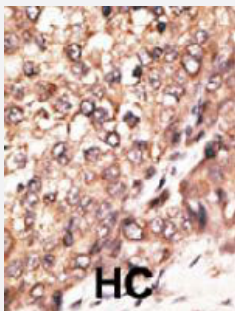
Size 400 uL

Applications



Western Blot (Transfected lysate)

Western blot analysis of BMP7 polyclonal antibody (Cat # PAB3676). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the Bmp7 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with BMP7 polyclonal antibody (Cat # PAB3676), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. HC = hepatocarcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of BMP7.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human BMP7.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Immunofluorescence (1:50-100) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

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- Immunofluorescence

Gene Info — BMP7

Entrez GeneID	655
Protein Accession#	BMHU7
Gene Name	BMP7
Gene Alias	OP-1
Gene Description	bone morphogenetic protein 7
Omim ID	112267
Gene Ontology	Hyperlink

Gene Summary

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 and possible bone inductive activity. [provided by RefSeq]

Other Designations

OTTHUMP00000031357|osteogenic protein 1

Publication Reference

- [Alterations in endogenous osteogenic protein-1 with degeneration of human articular cartilage.](#)
 Merrihew C, Kumar B, Heretis K, Rueger DC, Kuettner KE, Chubinskaya S.
 Journal of Orthopaedic Research: Official Publication of the Orthopaedic Research Society 2003 Sep; 21(5):899.
- [Bone morphogenetic protein-7 reduces the severity of colon tissue damage and accelerates the healing of inflammatory bowel disease in rats.](#)
 Maric I, Poljak L, Zoricic S, Bobinac D, Bosukonda D, Sampath KT, Vukicevic S.
 Journal of Cellular Physiology 2003 Aug; 196(2):258.
- [The BMP7/ActRII extracellular domain complex provides new insights into the cooperative nature of receptor assembly.](#)
 Greenwald J, Groppe J, Gray P, Wiater E, Kwiatkowski W, Vale W, Choe S.
 Molecular Cell 2003 Mar; 11(3):605.

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Hedgehog signaling pathway](#)
- [TGF-beta signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Calcinosis](#)

- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hyperparathyroidism](#)
- [Hypospadias](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Narcolepsy](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Psychiatric Status Rating Scales](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Tooth Abnormalities](#)