

Nur für Forschungszwecke

BMP7 Polyklonaler Antikörper

Katalog-Nr.: 12221-1-AP

Vorgestelltes Produkt

13 Publikationen



Allgemeine Informationen

Katalog-Nr.:
12221-1-AP

Größe:

150ul, Konzentration: 400 µg/ml von
Nanodrop und 267 µg/ml durch die
Bradford-Methode mit BSA als
Standard;

Wirt:

Kaninchen

Isotyp:

IgG

Immunogen Katalognummer:
AG2902

GenBank-Zugangsnummer:

BC008584

GeneID (NCBI):

655

Vollständiger Name:

bone morphogenetic protein 7

Berechnete Masse:

431 aa, 49 kDa

Beobachtete Masse:

49 kDa

Reinigungsmethode:

Antigen-Affinitätsreinigung

Empfohlene Verdünnungen:

WB 1:500-1:2000

IP 0.5-4.0 µg für IP und 1:500-1:1000

für WB

IHC 1:50-1:500

IF 1:20-1:200

Anwendungen

Geprüfte Anwendungen:

IF, IHC, IP, WB, ELISA

In Publikationen genannte Anwendungen:

IF, IHC, WB

Getestete Reaktivität:

Human, Maus

Zitierte Arten:

Human, Ratte

Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.

Positivkontrollen:

WB: MCF-7-Zellen, HEK-293-Zellen

IP: HEK-293-Zellen,

IHC: Maushirngewebe, humanes Blasengewebe, humanes Nierengewebe, humanes Nierenzellkarzinomgewebe

IF: HeLa-Zellen,

Hintergrundinformationen

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.

BMP7, also known as osteogenic protein-1 or OP-1, plays a key role in the transformation of mesenchymal cells into bone and cartilage. BMP7 may be involved in bone homeostasis (PMID: 15621726). It is expressed in the brain, kidneys and bladder. BMP7 is also present in cancers, including breast, prostate, and colon cancers, in which it is implicated in regulating cancer cell proliferation (PMID: 16419056, PMID: 15531927). Overexpression of BMP7 mRNA in colorectal cancer patients was significantly associated with poor prognosis and low overall survival (PMID: 18259822). Recent studies suggest that high-expression level of BMP7 serves as a biomarker for poor prognosis for HCC (PMID: 23179403).

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Chia Yee Tan	31495264	Circ Res	WB
Lingling Liu	31655195	Life Sci	WB
Tianda Chen	27752241	Front Mol Neurosci	WB

Lagerung

Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0.1% BSA

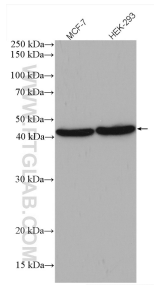
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

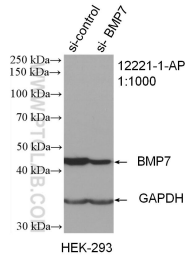
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

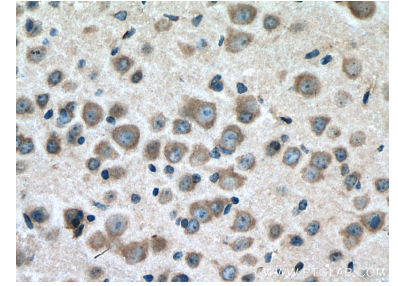
Ausgewählte Validierungsdaten



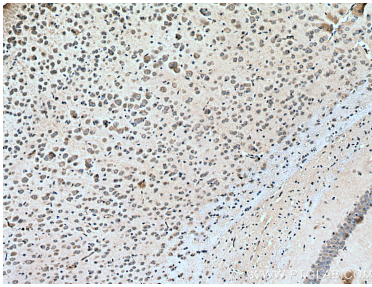
Various lysates were subjected to SDS PAGE followed by western blot with 12221-1-AP (BMP7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



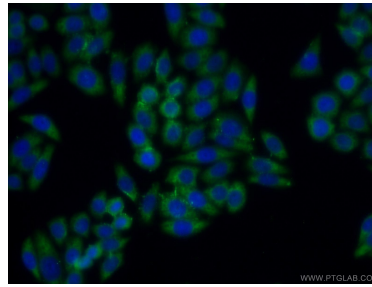
WB result of BMP7 antibody (12221-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-BMP7 transfected HEK-293 cells.



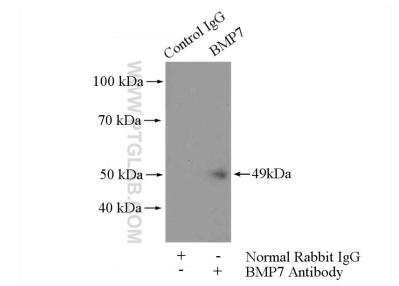
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12221-1-AP (BMP7 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12221-1-AP (BMP7 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HeLa cells using 12221-1-AP (BMP7 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-BMP7 (IP:12221-1-AP, 4ug; Detection:12221-1-AP 1:800) with HEK-293 cells lysate 2800ug.