10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BMP9 (GDF2) Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2064A

Specification

BMP9 (GDF2) Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9UK05
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**8-37**

BMP9 (GDF2) Antibody (N-term) - Additional Information

Gene ID 2658

Other Names
Growth/differentiation factor 2, GDF-2, Bone morphogenetic protein 9, BMP-9, GDF2, BMP9

Target/Specificity
This BMP9 (GDF2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 8-37 amino acids from the N-terminal region of human BMP9 (GDF2).

Dilution
WB~~1:1000
IHC-P~~1:50~100
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
BMP9 (GDF2) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

BMP9 (GDF2) Antibody (N-term) - Protein Information

Name GDF2

Synonyms BMP9

Function Potent circulating inhibitor of angiogenesis. Signals through the type I activin receptor ACVRL1 but not other Alks. Signaling through SMAD1 in endothelial cells requires TGF-beta coreceptor endoglin/ENG.

Cellular Location
Secreted

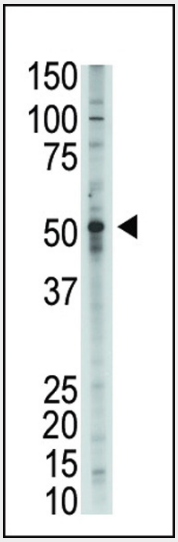
Tissue Location
Detected in blood plasma (at protein level).

BMP9 (GDF2) Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BMP9 (GDF2) Antibody (N-term) - Images



The anti-hGDF2 N-term Pab (Cat. #AP2064a) is used in Western blot to detect hGDF2 in mouse liver tissue lysate.

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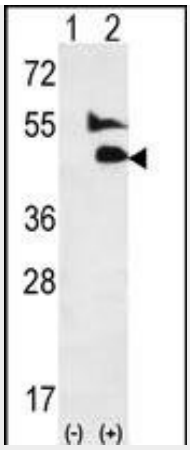
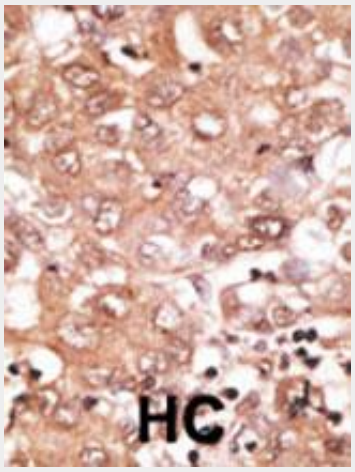


Western blot analysis of GDF2 (arrow) using rabbit polyclonal GDF2-K23 (Cat. #AP2064a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the GDF2 gene.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, 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. BC = breast carcinoma; HC = hepatocarcinoma.

BMP9 (GDF2) Antibody (N-term) - Background

GDF2 is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Studies in rodents suggest that this protein plays a role in the adult liver and in differentiation of cholinergic central nervous system neurons.

BMP9 (GDF2) Antibody (N-term) - References

Majumdar, M.K., et al., J. Cell. Physiol. 189(3):275-284 (2001).
Lopez-Coviella, I., et al., Science 289(5477):313-316 (2000).
Miller, A.F., et al., J. Biol. Chem. 275(24):17937-17945 (2000).

BMP9 (GDF2) Antibody (N-term) - Citations

- Reduced circulating BMP10 and BMP9 and elevated endoglin are associated with disease severity, decompensation and pulmonary vascular syndromes in patients with cirrhosis
- Autocrine bone morphogenetic protein-9 signals through activin receptor-like

kinase-2/Smad1/Smad4 to promote ovarian cancer cell proliferation.