10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

GDF11 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2061A

Specification

GDF11 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	O95390
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Antigen Region	**32-61**

GDF11 Antibody (N-term) - Additional Information

Gene ID 10220

Other Names
Growth/differentiation factor 11, GDF-11, Bone morphogenetic protein 11, BMP-11, GDF11, BMP11

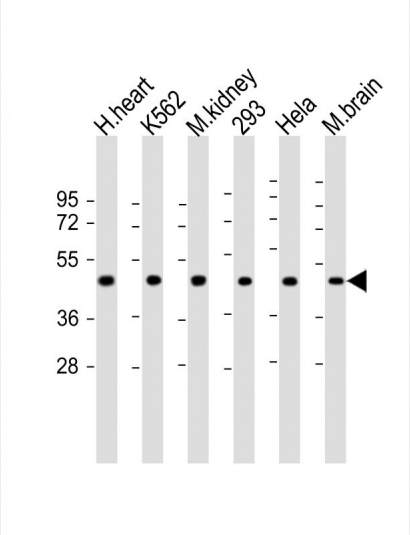
Target/Specificity
This GDF11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 32-61 amino acids from the N-terminal region of human GDF11.

Dilution
WB~~1:2000
IHC-P~~1:10~50

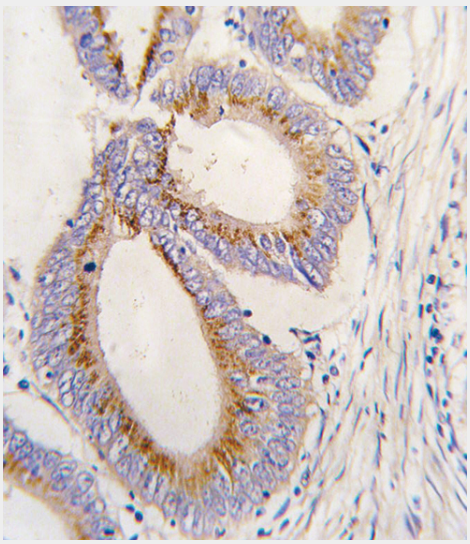
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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
GDF11 Antibody (N-term) is for research use only and not for use in diagnostic or



All lanes : Anti-hGDF11-R47 at 1:2000 dilution Lane 1: human heart lysate Lane 2: K562 whole cell lysate Lane 3: mouse kidney lysate Lane 4: 293 whole cell lysate Lane 5: Hela whole cell lysate Lane 5: mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 45 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded

therapeutic procedures.

GDF11 Antibody (N-term) - Protein Information

Name GDF11

Synonyms BMP11 {ECO:0000303|PubMed:10075854}

Function
Secreted signal that acts globally to specify positional identity along the anterior/posterior axis during development. May play critical roles in patterning both mesodermal and neural tissues and in establishing the skeletal pattern (By similarity). Signals through activin receptors type-2, ACVR2A and ACVR2B, and activin receptors type-1, ACVR1B, ACVR1C and TGFBR1 leading to the phosphorylation of SMAD2 and SMAD3 (PubMed:28257634).

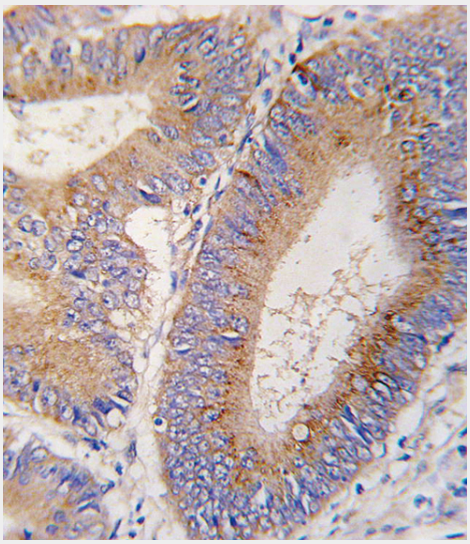
Cellular Location
Secreted.

GDF11 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

human colon carcinoma tissue reacted with GDF11 antibody (N-term) (Cat.#AP2061a), 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.



Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with GDF11 antibody (N-term) (Cat.#AP2061a), 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.

GDF11 Antibody (N-term) - Background

GDF11 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 mice and Xenopus suggest that this protein is involved in mesodermal formation and neurogenesis during embryonic development.

GDF11 Antibody (N-term) - References

Lee, S.J., et al., Curr. Opin. Genet. Dev. 9(5):604-607 (1999).
McPherron, A.C., et al., Nat. Genet. 22(3):260-264 (1999).

Gamer, L.W., et al., Dev. Biol. 208(1):222-232 (1999).
Hillier, L.D., et al., Genome Res. 6(9):807-828 (1996).