

**GDF11 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2061A**

**Specification**

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**GDF11 Antibody (N-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">O95390</a>
Reactivity	<b>Human, Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Antigen Region	<b>32-61</b>

**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 therapeutic procedures.

**GDF11 Antibody (N-term) - Protein Information**

**Name** GDF11

**Synonyms** BMP11 {ECO:0000303|PubMed:10075854}

**Function** Secreted signal that acts globally to regulate anterior/posterior axial patterning during

development. May play critical roles in patterning both mesodermal and neural tissues (By similarity). It is required for proper vertebral patterning and orofacial development (PubMed:[31215115](#)). 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.

#### Tissue Location

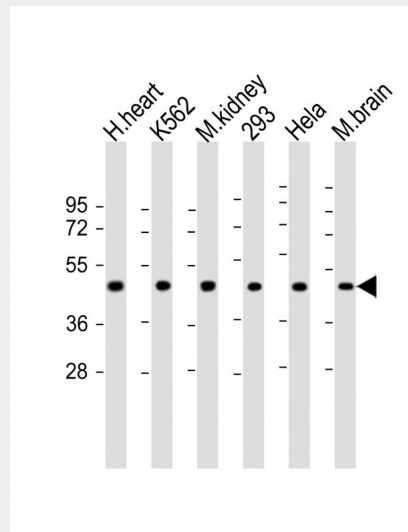
In the embryo, strong expression is seen in the palatal epithelia, including the medial edge epithelial and midline epithelial seam of the palatal shelves. Less pronounced expression is also seen throughout the palatal shelf and tongue mesenchyme

### GDF11 Antibody (N-term) - Protocols

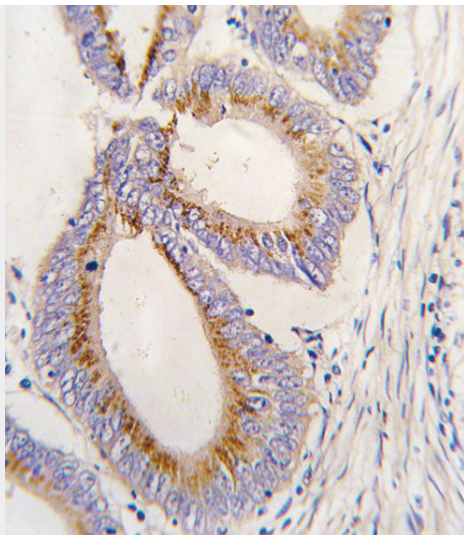
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

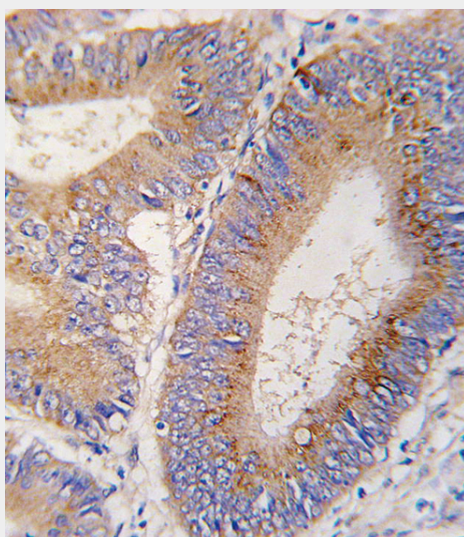
### GDF11 Antibody (N-term) - Images



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 6: 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 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.



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#### **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).