

**GDF11 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2061a****Specification**

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**GDF11 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [O95390](#)**GDF11 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 10220**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2061a](/product/products/AP2061a) was selected from the N-term region of human GDF11. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GDF11 Antibody (N-term) Blocking Peptide - 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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**GDF11 Antibody (N-term) Blocking Peptide - Images****GDF11 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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).