

GDF6 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP11672a**Specification**

GDF6 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q6KF10](#)**GDF6 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 392255**Other Names**Growth/differentiation factor 6, GDF-6, Bone morphogenetic protein 13, BMP-13,
Growth/differentiation factor 16, GDF6, BMP13, GDF16**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.

GDF6 Antibody (N-term) Blocking peptide - Protein Information**Name** GDF6**Synonyms** BMP13, GDF16**Function**

Growth factor that controls proliferation and cellular differentiation in the retina and bone formation. Plays a key role in regulating apoptosis during retinal development. Establishes dorsal-ventral positional information in the retina and controls the formation of the retinotectal map (PubMed: 23307924). Required for normal formation of bones and joints in the limbs, skull, digits and axial skeleton. Plays a key role in establishing boundaries between skeletal elements during development. Regulation of GDF6 expression seems to be a mechanism for evolving species-specific changes in skeletal structures. Seems to positively regulate differentiation of chondrogenic tissue through the growth factor receptors subunits BMPR1A, BMPR1B, BMPR2 and ACVR2A, leading to the activation of SMAD1-SMAD5-SMAD8 complex. The regulation of chondrogenic differentiation is inhibited by NOG (PubMed: 26643732). Also involved in the induction of adipogenesis from mesenchymal stem cells. This mechanism acts through the growth factor receptors subunits BMPR1A, BMPR2 and ACVR2A and the activation of SMAD1-SMAD5-SMAD8 complex and MAPK14/p38 (By similarity).

Cellular Location
Secreted.

GDF6 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

GDF6 Antibody (N-term) Blocking peptide - Images

GDF6 Antibody (N-term) Blocking peptide - Background

The glypicans comprise a family of glycosylphosphatidylinositol-anchored heparan sulfate proteoglycans, and they have been implicated in the control of cell growth and cell division. The glypican encoded by this gene is a putative cell surface coreceptor for growth factors, extracellular matrix proteins, proteases and anti-proteases. [provided by RefSeq].

GDF6 Antibody (N-term) Blocking peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Lau, C.S., et al. Br J Ophthalmol 94(3):357-362(2010) Calboli, F.C., et al. PLoS ONE 5 (7), E11504 (2010) : Wheeler, H.E., et al. PLoS Genet. 5 (10), E1000685 (2009) : Campos-Xavier, A.B., et al. Am. J. Hum. Genet. 84(6):760-770(2009)