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GDF9 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP2069a

Specification

GDF9 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession	O60383
Other Accession	NP_005251

GDF9 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 2661

Other Names
Growth/differentiation factor 9, GDF-9, GDF9

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2069a was selected from the N-term region of human GDF9 . 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.

GDF9 Antibody (N-term) Blocking Peptide - Protein Information

Name GDF9

Function
Required for ovarian folliculogenesis. Promotes primordial follicle development. Stimulates granulosa cell proliferation. Promotes cell transition from G0/G1 to S and G2/M phases, through an increase of CCND1 and CCNE1 expression, and RB1 phosphorylation. It regulates STAR expression and cAMP-dependent progesterone release in granulosa and thecal cells. Attenuates the suppressive effects of activin A on STAR expression and progesterone production by increasing the expression of inhibin B. It suppresses FST and FSTL3 production in granulosa-lutein cells.

Cellular Location
Secreted.

Tissue Location

Expressed in ovarian granulosa cells. Present in oocytes of primary follicles (at protein level)

GDF9 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

GDF9 Antibody (N-term) Blocking Peptide - Images

GDF9 Antibody (N-term) Blocking Peptide - Background

GDF9 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.Growth factors synthesized by ovarian somatic cells directly affect oocyte growth and function. GDF9 is expressed in oocytes and is thought to be required for ovarian folliculogenesis.

GDF9 Antibody (N-term) Blocking Peptide - References

Liao, W.X., et al., J. Biol. Chem. 278(6):3713-3719 (2003).Vitt, U.A., et al., Biol. Reprod. 67(2):473-480 (2002).Aaltonen, J., et al., J. Clin. Endocrinol. Metab. 84(8):2744-2750 (1999).Dong, J., et al., Nature 383(6600):531-535 (1996).McGrath, S.A., et al., Mol. Endocrinol. 9(1):131-136 (1995).