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GDF9 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP12182a

Specification

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

Primary Accession O60383

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

Gene ID 2661

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

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

Growth factors synthesized by ovarian somatic cellsdirectly affect oocyte growth and function. Growth differentiationfactor-9 (GDF9) is expressed in oocytes and is thought to berequired for ovarian folliculogenesis. GDF9 is a member of thetransforming growth factor-beta superfamily.

GDF9 Antibody (N-term) Blocking peptide - References

Bokobza, S.M., et al. J. Cell. Physiol. 225(2):529-536(2010)Wang, T.T., et al. Fertil. Steril. 94(6):2490-2492(2010)Shi, F.T., et al. J. Clin. Endocrinol. Metab. 95 (10), E172-E180 (2010) :Sproul, K., et al. BJOG 117(6):756-760(2010)Davila, S., et al. Genes Immun. 11(3):232-238(2010)