

**GDF9 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12182a****Specification**

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**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 cells directly affect oocyte growth and function. Growth differentiation factor-9 (GDF9) is expressed in oocytes and is thought to be required for ovarian folliculogenesis. GDF9 is a member of the transforming 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)