

For Research Use Only

GDF9 Polyclonal antibody

Catalog Number: 29309-1-AP



Basic Information

Catalog Number: 29309-1-AP	GenBank Accession Number: BC096228	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 2661	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	Full Name: growth differentiation factor 9	
Isotype: IgG	Calculated MW: 454 aa, 51 kDa	
Immunogen Catalog Number: AG29603	Observed MW: 70 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : A2780 cells, SKOV-3 cells, mouse ovary tissue, rat ovary tissue IHC : mouse ovary tissue,
Species Specificity: Human, mouse, rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

GDF9 (Growth/differentiation factor 9) belongs to the TGF-beta family. GDF9 is required for ovarian folliculogenesis. GDF9 and BMP15 are oocyte-secreted factors with a leading role in the control of ovarian function in female reproduction, modulating both the cell fate of the somatic granulosa cells and the quality and developmental competence of the egg (PMID: 29544636). GDF9 promotes cell transition from G0/G1 to S and G2/M phases, through an increase of CCND1 and CCNE1 expression, and RB1 phosphorylation (PMID: 19366876). It regulates STAR expression and cAMP-dependent progesterone release in granulosa and thecal cells. GDF9 attenuates the suppressive effects of activin A on STAR expression and progesterone production by increasing the expression of inhibin B (PMID: 21829661). It suppresses FST and FSTL3 production in granulosa-lutein cells (PMID: 21632818, PMID: 21829661).

Storage

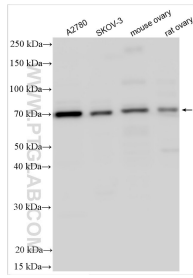
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

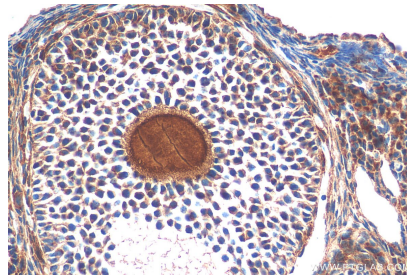
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29309-1-AP (GDF9 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse ovary tissue slide using 29309-1-AP (GDF9 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).