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Anti-GDF9 Antibody

Rabbit polyclonal antibody to GDF9
Catalog # AP59564

Product Information

Application	WB, IHC
Primary Accession	O60383
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51444

Additional Information

Gene ID	2661
Other Names	Growth/differentiation factor 9; GDF-9
Target/Specificity	Recognizes endogenous levels of GDF9 protein.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

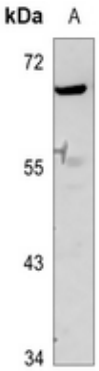
Protein Information

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)

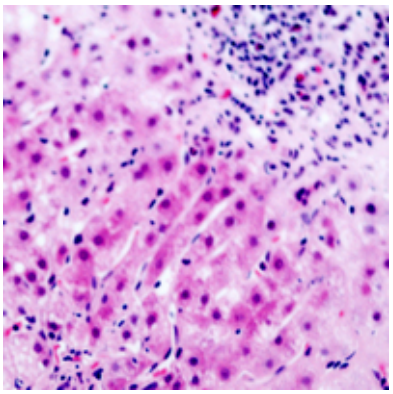
Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GDF9. The exact sequence is proprietary.

Images



Western blot analysis of GDF9 expression in HEK293T (A), A2780 (B) whole cell lysates.



Immunohistochemical analysis of GDF9 staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. AEC was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.