bs-4720R **[Primary Antibody]**

GDF9 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2661 **SWISS:** O60383

Target: GDF9

Immunogen: KLH conjugated synthetic peptide derived from human GDF9: 301-400/454.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: GDF 9 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 synthesized by ovarian somatic cells directly affect oocyte growth and function. GDF 9 is expressed in oocytes and is thought to be required for ovarian folliculogenesis.

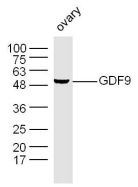
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:50-200)
Flow-Cyt (1ug/Test)

Reactivity: Human, Mouse, Rat (predicted: Pig, Sheep, Cow, Chicken, Dog, Horse)

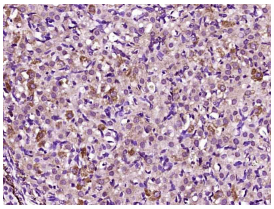
Predicted MW.: 15 kDa

Subcellular Location: Secreted

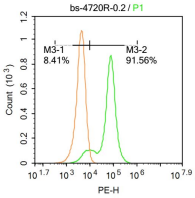
VALIDATION IMAGES



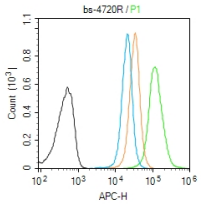
Sample: Ovary (Mouse) Lysate at 40 ug Primary: Anti-GDF9 (bs-4720R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 15 kD Observed band size: 50 kD



Paraformaldehyde-fixed, paraffin embedded (Rat ovarian); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GDF9) Polyclonal Antibody, Unconjugated (bs-4720R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control:Molt-4. Primary Antibody (green line): Rabbit Anti-GDF9 antibody (bs-4720) Dilution: 0.2µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 0.2µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control (Black line): Molt4 (Black). Primary

Antibody (green line):Rabbit Anti-GDF9 antibody (bs-4720R) Dilution: 3µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647 Dilution: 3µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=2.6]** Gül Semir. et al. High Carbohydrate, Fat, and Protein Diets Have a Critical Role in Folliculogenesis and Oocyte Development in Rats. REPROD SCI. 2024 Jun;:1-13 IHC ;Rat. 38937400
- **[IF=2.2]** Lan Liu. et al. LCZ696 Ameliorates Tachycardia-Induced Cardiac Calcium Dyshomeostasis in the SERCA2α-Dependent Pathway. TOHOKU J EXP MED. 2023 Aug 23 WB ;Mouse. 37258137
- **[IF=1.281]** Pinar Kacamak. et al. The Effect of Isotretinoin on Oocyte Maturation in Adolescent Female Rats. Gynecol Obstet Inves. 2020;85(4):327-335 IHC ;Rat. 32894850
- **[IF=1.224]** Huihui Wang. et al. Regulation of GDF9 and CDKN1B expression in Tibetan sheep testes during different stages of maturity. Gene Expr Patterns. 2021 Nov;:119218 WB,IF ;Sheep. 34826605
- **[IF=1.4]** Fındık Damla Gül. et al. Decreased growth differentiation factor 9, bone morphogenetic protein 15, and forkhead box O3a expressions in the ovary via ulipristal acetate. Revista da Associacao Medica Brasileira. 2023 Aug;69:e20230381 IHC ;Rat. 37585996