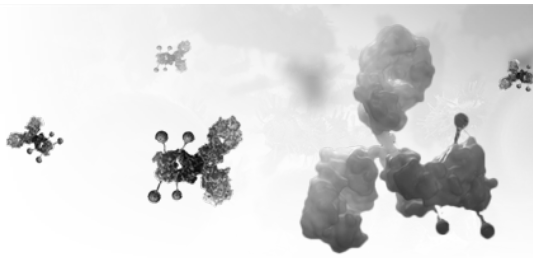

Anti-GDF9 monoclonal antibody, clone mAb-GDF9-53 (CABT-48940MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse anti Human GDF9 antibody, clone mAb-GDF9-53 recognizes an epitope within the highly conserved EPDG sequence of GDF9 (growth differentiation factor 9), a 454 amino acid ~51 kDa pro-protein which is cleaved to form a ~17.5 kDa GDF9 monomer which self associates to form an active homodimeric growth factor, a member of the TGF-beta superfamily, closely related to bone morphogenetic proteins (BMPs). GDF9 is expressed by oocytes, playing a vital role in ovarian folliculogenesis, normal follicle development, and fertility. GDF9 signals through binding to bone morphogenetic protein type II receptor (BMPRII), and apparent subsequent activation of TGF-beta type I receptor, otherwise known as activin receptor-like kinase-5 (ALK-5). Mouse anti Human GDF9 antibody, clone mAb-GDF9-53 recognises GDF9 with high immuno- affinity, and has been shown to neutralize GDF9 biological activity. Removal of sodium azide is recommended prior to use in functional assays.
Specificity	GDF9
Immunogen	Tuberculin coupled synthetic peptide VPAKYSPLSVLTIEPDGSIAYKEYEDMIATKC from near the C-terminal region of mature human GDF9.
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human, Mouse, Sheep
Clone	mAb-GDF9-53
Conjugate	Unconjugated
Applications	IHC-Fr; FA; IHC-P; WB
Format	Purified IgG - liquid

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Size	100 µg
Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	GDF9 growth differentiation factor 9 [Homo sapiens (human)]
Official Symbol	GDF9
Synonyms	GDF9; growth differentiation factor 9; growth/differentiation factor 9; GDF-9;
Entrez Gene ID	2661
Protein Refseq	NP_001275753
UniProt ID	O77681
Chromosome Location	5q31.1
Pathway	Ovarian Infertility Genes; Ovarian steroidogenesis;
Function	cytokine activity; growth factor activity; transforming growth factor beta receptor binding;

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