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GDF3 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2066c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9NR23
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15041
Calculated MW	41387
Antigen Region	170-197

Additional Information

Gene ID	9573
Other Names	Growth/differentiation factor 3, GDF-3, GDF3
Target/Specificity	This GDF3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 170-197 amino acids from the Central region of human GDF3.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GDF3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GDF3
Function	Growth factor involved in early embryonic development and adipose-tissue homeostasis. During embryogenesis controls formation of anterior visceral endoderm and mesoderm and the establishment of anterior-posterior identity through a receptor complex comprising the receptor ACVR1B and the coreceptor CRIPTO (By similarity). Regulates adipose-tissue homeostasis and

	energy balance under nutrient overload in part by signaling through the receptor complex based on ACVR1C and CRIPTO/Cripto (PubMed:21805089).
Cellular Location	Secreted. Cytoplasm. Note=Mainly accumulated in the cytoplasm

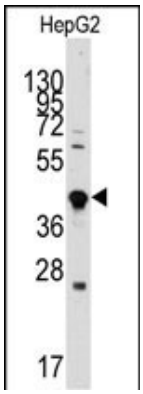
Background

GDF3 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 growth and differentiation in both embryonic and adult tissues. The function of this protein is unknown, but expression studies suggest it may be involved in regulation of the adult lymphatic and erythroid systems and embryonic development.

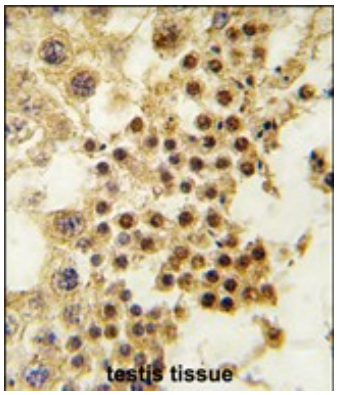
References

Clark, H.F., et al., Genome Res. 13(10):2265-2270 (2003).
Ducy, P., et al., Kidney Int. 57(6):2207-2214 (2000).
Caricasole, A.A., et al., Oncogene 16(1):95-103 (1998).

Images



Western blot analysis of anti-GDF3 Antibody (Center) (Cat.#AP2066c) in HepG2 cell line lysates (35ug/lane).GDF3 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human testis tissue reacted with GDF3 antibody (Center) (Cat.#AP2066c), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.