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GDF1 Antibody

Catalog # ASC11572

Product Information

Application	WB, IF, E
Primary Accession	P27539
Other Accession	NP_001483, 110349792
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	39475
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	GDF1 antibody can be used for detection of GDF1 by Western blot at 1 - 2 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	2657
Other Names	Embryonic growth/differentiation factor 1, GDF-1, GDF1
Target/Specificity	GDF1; GDF1 antibody is predicted to not cross-react with any other members of the growth differentiation factor family.
Reconstitution & Storage	GDF1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	GDF1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GDF1
Function	May mediate cell differentiation events during embryonic development.
Cellular Location	Secreted.
Tissue Location	Expressed in the brain.

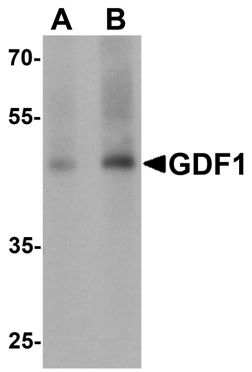
Background

GDF1 Antibody: Growth differentiation factors (GDFs) are members of the transforming growth factor (TGF) superfamily that is involved in embryonic development and adult tissue homeostasis. GDF1 was initially identified as a temporally expressed gene in the mouse central nervous system during embryonic development, with only one isoform detected in adult tissues. GDF1 is required for left-right patterning during development and directly interacts with Nodal, another member of the TGF-beta superfamily. It has been suggested that GDF1 regulates the activity and signaling range of Nodal through direct interaction.

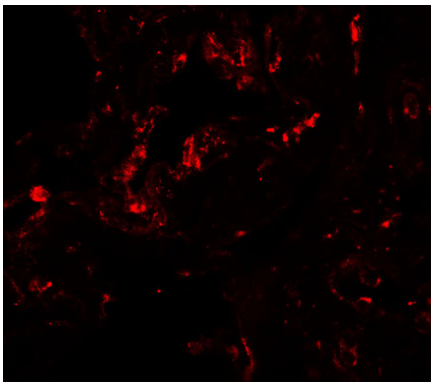
References

Massague J. 1990. The transforming growth factor-beta family. Ann. Rev. Cell Biol. 6:597-641.
Lee SJ. Expression of growth/differentiation factor 1 in the nervous system: conservation of a bicistronic structure. Proc. Natl. Acad. Sci. USA 1991; 88:4250-4.
Rankin CT, Bunton T, Lawler AM, et al. Regulation of left-right patterning in mice by growth/differentiation factor-1. Nat. Genet. 2000; 24:262-5.
Tanaka C, Sakuma R, Nakamura T, et al. Long-range action of Nodal requires interaction with GDF1. Genes Dev. 2007; 21:3272-82.

Images



Western blot analysis of GDF1 in rat lung tissue lysate with GDF1 antibody at (A) 1 and (B) 2 µg/mL.



Immunofluorescence of GDF1 in human lung tissue with GDF1 antibody at 20 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.