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# GDF1 Antibody

Catalog # ASC11572

## Product Information

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| **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

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| **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

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

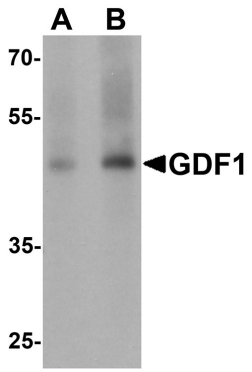
## Background

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.

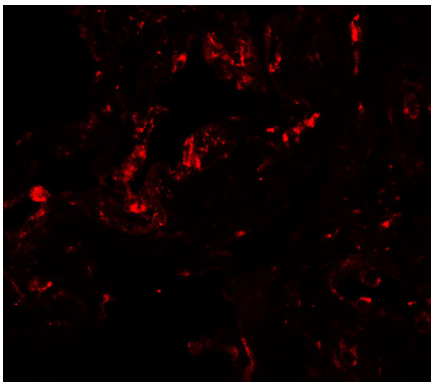
## References


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.