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GDF7 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant GDF7.
Catalog # AT2186a

Product Information

Application	E
Primary Accession	Q7Z4P5
Other Accession	NM_182828
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1A1
Calculated MW	46950

Additional Information

Gene ID	151449
Other Names	Growth/differentiation factor 7, GDF-7, GDF7
Target/Specificity	GDF7 (NP_878248, 361 a.a. ~ 450 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	GDF7 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

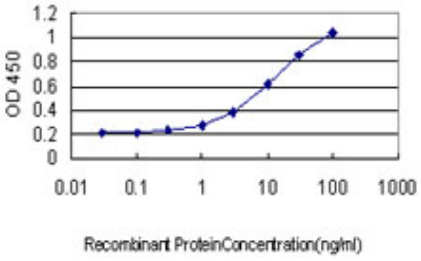
This gene encodes a member of the bone morphogenetic protein (BMP) family. BMPs belong to the transforming growth factor-beta superfamily of secreted signalling molecules that regulate diverse processes in growth, repair and embryonic development. In mouse, this gene functions as an inductive signal from the roof plate required for the specification of neuronal identity in the dorsal spinal cord.

References

An approach based on a genome-wide association study reveals candidate loci for narcolepsy. Shimada M, et al. Hum Genet, 2010 Oct. PMID 20677014.New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.Effects of cartilage-derived

morphogenetic protein-3 on the expression of chondrogenic and osteoblastic markers in the pluripotent mesenchymal C3H10T1/2 cell line. Yeh LC, et al. Growth Factors, 2010 Apr. PMID 20102312.Identification of receptors and signaling pathways for orphan bone morphogenetic protein/growth differentiation factor ligands based on genomic analyses. Mazerbourg S, et al. J Biol Chem, 2005 Sep 16. PMID 16049014.A role for BMP heterodimers in roof plate-mediated repulsion of commissural axons. Butler SJ, et al. Neuron, 2003 May 8. PMID 12741987.

Images



Detection limit for recombinant GST tagged GDF7 is approximately 1ng/ml as a capture antibody.