10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GDF11 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8665b

Product Information

Application	WB, E
Primary Accession	O95390
Reactivity	Human
Predicted	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,κ
Clone Names	1956CT308.38.25
Calculated MW	45091

Additional Information

Gene ID	10220
Other Names	Growth/differentiation factor 11, GDF-11, Bone morphogenetic protein 11, BMP-11, GDF11, BMP11
Target/Specificity	This GDF11 antibody is generated from a mouse immunized with a recombinant protein from the human region of human GDF11.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, 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	GDF11 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GDF11
Synonyms	BMP11 {ECO:0000303|PubMed:10075854}
Function	Secreted signal that acts globally to regulate anterior/posterior axial patterning during development. May play critical roles in patterning both mesodermal and neural tissues (By similarity). It is required for proper

vertebral patterning and orofacial development (PubMed:31215115). Signals through activin receptors type-2, ACVR2A and ACVR2B, and activin receptors type-1, ACVR1B, ACVR1C and TGFBR1 leading to the phosphorylation of SMAD2 and SMAD3 (PubMed:28257634).

Cellular Location Secreted.

Tissue Location In the embryo, strong expression is seen in the palatal epithelia, including the medial edge epithelial and midline epithelial seam of the palatal shelves. Less pronounced expression is also seen throughout the palatal shelf and tongue mesenchyme

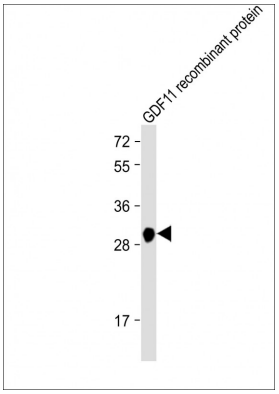
Background

Secreted signal that acts globally to specify positional identity along the anterior/posterior axis during development. Play critical roles in patterning both mesodermal and neural tissues and in establishing the skeletal pattern.

References

Gamer L.W.,et al.Dev. Biol. 208:222-232(1999).
McPherron A.C.,et al.Nat. Genet. 22:260-264(1999).

Images



Anti-GDF11 Antibody at 1:2000 dilution + GDF11 recombinant protein Lysates/proteins at 20 ng per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa Blocking/Dilution buffer: 5% NFDM/TBST.