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Goat anti-GDF5 Antibody

Peptide-affinity purified goat antibody
Catalog # AF4342a

Product Information

Application	Pep-ELISA
Primary Accession	P43026
Other Accession	NP_000548.1
Reactivity	Human, Mouse, Horse
Host	Goat
Clonality	Polyclonal
Clone Names	GDF5
Calculated MW	55395

Additional Information

Gene ID	8200
Other Names	GDF5; growth differentiation factor 5; CDMP1; LAP4; SYNS2; cartilage-derived morphogenetic protein-1
Dilution	Pep-ELISA~~N/A
Format	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Goat anti-GDF5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GDF5
Synonyms	BMP14, CDMP1
Function	Growth factor involved in bone and cartilage formation. During cartilage development regulates differentiation of chondrogenic tissue through two pathways. Firstly, positively regulates differentiation of chondrogenic tissue through its binding of high affinity with BMPR1B and of less affinity with BMPR1A, leading to induction of SMAD1-SMAD5-SMAD8 complex phosphorylation and then SMAD protein signaling transduction (PubMed:15530414, PubMed:21976273, PubMed:24098149,

	PubMed:25092592). Secondly, negatively regulates chondrogenic differentiation through its interaction with NOG (PubMed:21976273). Required to prevent excessive muscle loss upon denervation. This function requires SMAD4 and is mediated by phosphorylated SMAD1/5/8 (By similarity). Binds bacterial lipopolysaccharide (LPS) and mediates LPS-induced inflammatory response, including TNF secretion by monocytes (PubMed:11276205).
Cellular Location	Secreted. Cell membrane
Tissue Location	Predominantly expressed in long bones during embryonic development. Expressed in monocytes (at protein level)