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[Primary Antibody]

Rabbit Anti-GDF8 antibody

Catalog Number: SL23012R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	GDF8
Immunogen:	KLH conjugated synthetic peptide derived from human GDF8: 301-375/375
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Chicken,Dog,Pig,Horse,Sheep)
Predicted MW.:	12/43kDa
Subcellular Location:	Secretory protein
Background:	The protein encoded by this gene is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. This gene is thought to encode a secreted protein which negatively regulates skeletal muscle growth. Acts specifically as a negative regulator of skeletal muscle growth. [SUBUNIT] Homodimer; [TISSUE SPECIFICITY] Expressed specifically in developing and adult skeletal muscle. Weak expression in adipose tissue. Belongs to the TGF-beta family. **Function:** Acts specifically as a negative regulator of skeletal muscle growth. **Subunit:** Homodimer; disulfide-linked. Interacts with WFIKKN2, leading to

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	inhibit its activity. Interacts with FST3. **Subcellular Location:** Secreted **Tissue Specificity:** Predominantly expressed in muscle. At hatching, expression is strongest in the skin epithelium, and is also found in the retina and brain. From day 28, expressed in skeletal muscle. In the adult, highest expression is seen in the gastrointestinal tract, brain, muscle, heart and testis. Also expressed in the adult pharynx, kidney, spleen, liver, gill, eyes, skin, swim bladder and ovary. DISEASE: Defects in MSTN are the cause of muscle hypertrophy (MSLHP) [MIM:614160]. MSLHP is a condition characterized by increased muscle bulk and strength. Affected individuals are exceptionally strong. **Similarity:** Belongs to the TGF-beta family. **Database links:** **Entrez Gene:** 2660 Human **Entrez Gene:** 17700 Mouse **Entrez Gene:** 399534 Pig **Entrez Gene:** 29152 Rat Omim: 601788 Human **SwissProt:** O14793 Human **SwissProt:** O08689 Mouse **SwissProt:** O35312 Rat **SwissProt:** O18830 Sheep **Unigene:** 41565 Human **Unigene:** 3514 Mouse **Unigene:** 44460 Rat GDF-8, also known as MSTN, belongs to the transforming growth factor superfamily and is an important type of muscle cell growth regulatory factor discovered in recent years. It negatively controls the growth and development of muscle cells by inhibiting the transcriptional activity of MyoD family members, and its expression level is negatively correlated with changes in muscle weight.

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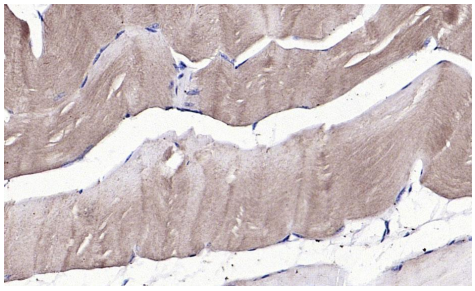
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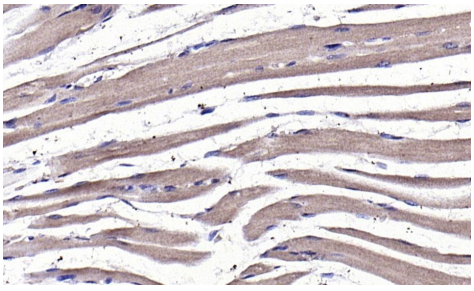
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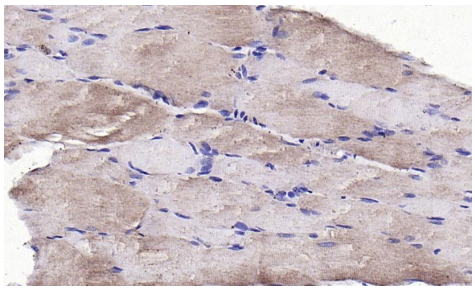
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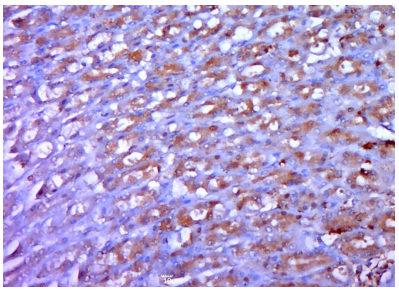
Paraformaldehyde-fixed, paraffin embedded (mouse skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Anti-GDF8)) Polyclonal Antibody, Unconjugated (SL23012R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat tongue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Anti-GDF8)) Polyclonal Antibody, Unconjugated (SL23012R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Anti-GDF8)) Polyclonal Antibody, Unconjugated (SL23012R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat stomach tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GDF8) Polyclonal Antibody, Unconjugated (SL23012R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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