SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-GDF7 antibody

Catalog Number: SL11461R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	GDF7
Immunogen:	KLH conjugated synthetic peptide derived from human GDF7: 362-410/450
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:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Chicken, Pig, Cow, Horse)
Predicted MW.:	14kDa
Subcellular Location:	Secretory protein
Background:	Growth/differentiation factors (GDFs) are members of the TGF superfamily (1,2). Members of the TGF superfamily are involved in embryonic development and adult tissue homeostasis (1). GDF-1 expression is almost exclusively restricted to the central nervous system and mediates cell differentiation events during embryonic development (3). Neither GDF-3 (Vgr-2) nor GDF-9 contains the conserved cysteine residue which is found in most other TGF superfamily members. GDF-3 is detectable in bone marrow, spleen, thymus and adipose tissue, whereas GDF-9 has only been detected in ovary (4). GDF-5 (also designated CDMP-1) has been shown to induce activation of plasminogen activator, thereby inducing angiogenesis.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	It is predominantly expressed in long bones during fetal embryonic development and is involved in bone formation. (5). GDF-5 mutations have been identified in mice with the mutation brachypodism (bp), a mutation which affects the length and number of bones in limbs (6). GDF-6 and GDF-7 are closely related to GDF-5 (6). GDF-8 has been shown to be a negative regulator of skeletal muscle mass (1). **Function:** May play an active role in the motor area of the primate neocortex. **Subunit:** Homodimer; disulfide-linked **Subcellular Location:** Secreted. **Similarity:** Belongs to the TGF-beta family. **Database links:** **Entrez Gene:** 151449 Human **Entrez Gene:** 238057 Mouse **Entrez Gene:** 252833 Rat Omim: 604651 Human **SwissProt:** Q7Z4P5 Human **SwissProt:** P43029 Mouse **Unigene:** 447688 Human **Unigene:** 271308 Mouse **Unigene:** 92437 Rat

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