bs-11843R **[Primary Antibody]**

GDF6 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 392255 **SWISS:** Q6KF10

Target: GDF6

Immunogen: KLH conjugated synthetic peptide derived from human GDF6: 336-410/455.

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°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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. 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).

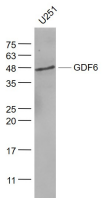
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse, Rat, Rabbit, Cow, Dog, Horse)

Predicted MW.: 14 kDa

Subcellular Location: Secreted

VALIDATION IMAGES



Sample: U251(Human) Cell Lysate at 30 ug
Primary: Anti- GDF6 (bs-11843R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 14 kD Observed band size: 48 kD

SELECTED CITATIONS

- **[IF=6.832]** Hou, Yonghui. et al. Nonwoven-based gelatin/polycaprolactone membrane loaded with ERK inhibitor U0126 for treatment of tendon defects. Stem Cell Res Ther. 2022 Dec;13(1):1-11 IHC ;Rat. 35012661
- **[IF=4.522]** Wang Y et al. Aspirin promotes tenogenic differentiation of tendon stem cells and facilitates tendinopathy healing through regulating the GDF7/Smad1/5 signaling pathway. J Cell Physiol. 2019 Oct 21. WB ;Rat. 31637734
- **[IF=3.3]** Ye Wei. et al. Construction and validation of a comprehensive metabolism-associated prognostic model for

predicting survival and immunotherapy benefits in ovarian cancer. J CANCER. 2024 Sep;15(18):5986-6001 IHC ;Human. 39440060