

bs-1288R**[Primary Antibody]****GDF8 Rabbit pAb****Bioss**
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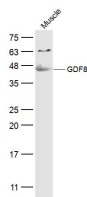
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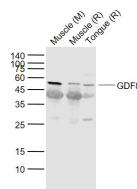
400-901-9800

— DATASHEET —**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 2660**SWISS:** Q14793**Target:** GDF8**Immunogen:** KLH conjugated synthetic peptide derived from human GDF8: 281-375/375.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

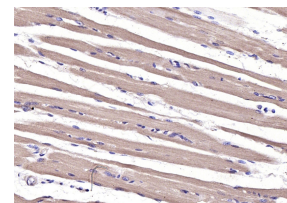
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Myostatin (GDF8) is expressed uniquely in human skeletal muscle as a 12 kDa mature glycoprotein consisting of 113 amino acid residues and secreted into plasma. Myostatin is a member of the transforming growth factor beta superfamily of secreted growth and differentiation factors that is essential for proper regulation of skeletal muscle mass. Studies have shown that myostatin could play an important role in cardiac development and physiology.**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Reactivity:** Mouse, Rat
(predicted: Human, Pig, Sheep, Cow, Chicken, Horse)**Predicted MW.:** 12/43 kDa**Subcellular Location:** Secreted**— VALIDATION IMAGES —**

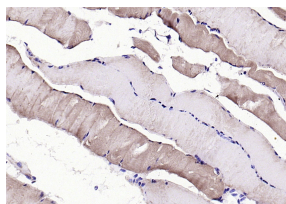
Sample: Muscle (Mouse) Lysate at 40 ug Primary: Anti-GDF8 (bs-1288R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 12/43 kD
Observed band size: 43 kD



Sample: Lane 1: Muscle (Mouse) Lysate at 40 ug Lane 2: Muscle (Rat) Lysate at 40 ug Lane 3: Tongue (Rat) Lysate at 40 ug Primary: Anti-GDF8 (bs-1288R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 43 kD



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 (bs-1288R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



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

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

Antibody, Unconjugated (bs-1288R) at 1:200
overnight at 4°C, followed by operating
according to SP Kit(Rabbit) (sp-0023)
instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=8.713]** Zhao-Bo Luo. et al. Fecal transplant from myostatin deletion pigs positively impacts the gut-muscle axis. ELIFE. 2023; 12: e81858 WB ;Mouse. 37039469
- **[IF=4.26]** Qian et al. Targeted mutations in myostatin by zinc-finger nucleases result in double-muscling phenotype in Meishan pigs. (2015) Sci.Re. 5:14435 WB ;Pig. 26400270
- **[IF=4.366]** Genxi Zhang. et al. MicroRNA-27b-3p Targets the Myostatin Gene to Regulate Myoblast Proliferation and Is Involved in Myoblast Differentiation. Cells-Basel. 2021 Feb;10(2):423 WB ;Chicken. 33671389
- **[IF=2.59]** Yamada A.K.. et al. Beta-hydroxy-beta-methylbutyrate associated with low-intensity exercise training improves skeletal muscle regeneration through the IGF-Akt pathway. Braz J Med Biol Res. 2022 Jan;55: WB ;Rat. 35019034
- **[IF=2.788]** Jin, Zhengyun. et al. Esophageal striated muscle hypertrophy and muscle fiber type transformation in MSTN knockout pigs. TRANSGENIC RES. 2022 May;:1-9 WB ;Pig. 35570234