

**bs-6936R****[ Primary Antibody ]****MYF5 Rabbit pAb****Bioss**  
**ANTIBODIES**

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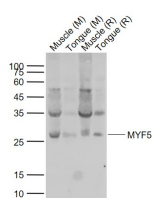
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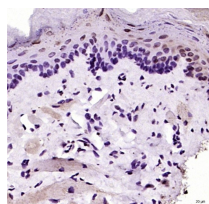
400-901-9800

**— DATASHEET —**

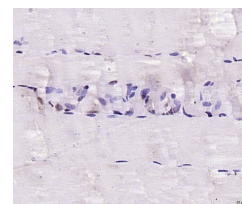
<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 4617 <b>Target:</b> MYF5 <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human MYF5: 61-160/255. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. <b>Background:</b> Differentiation of myogenic cells is regulated by multiple positively and negatively acting factors. One well characterized family of helix-loop-helix (HLH) proteins known to play an important role in the regulation of muscle cell development include Myo D, myogenin, Myf-5 and Myf-6 (also designated MRF-4 or herculin). Of interest, most muscle cells express either Myo D or Myf-5 in the committed state, but when induced to differentiate, all turn on expression of myogenin. Myo D transcription factors form heterodimers with products of a more widely expressed family of bHLH genes, the E family, which consists of at least three distinct genes: E2A, IF2 and HEB. Myo D-E heterodimers bind avidly to consensus (CANNTG) E box target sites that are functionally important elements in the upstream regulatory sequences of many muscle-specific terminal differentiation genes.	<b>Isotype:</b> IgG <b>SWISS:</b> P13349	<b>Applications:</b> <b>WB</b> (1:500-2000) <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:50-200)  <b>Reactivity:</b> Mouse, Rat (predicted: Human, Rabbit, Pig, Sheep, Cow, Chicken, Horse)  <b>Predicted MW.:</b> 28 kDa  <b>Subcellular Location:</b> Nucleus
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**— VALIDATION IMAGES —**

Sample: Lane 1: Muscle (Mouse) Lysate at 40 ug  
Lane 2: Tongue (Mouse) Lysate at 40 ug Lane 3:  
Muscle (Rat) Lysate at 40 ug Lane 4: Tongue (Rat)  
Lysate at 40 ug Primary: Anti-MYF5 (bs-6936R) at  
1/1000 dilution Secondary: IRDye800CW Goat  
Anti-Rabbit IgG at 1/20000 dilution Predicted  
band size: 28 kD Observed band size: 28 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 (MYF5) Polyclonal Antibody,  
Unconjugated (bs-6936R) 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 (MYF5) Polyclonal Antibody,  
Unconjugated (bs-6936R) at 1:200 overnight at  
4°C, followed by operating according to SP  
Kit(Rabbit) (sp-0023) instructionsand DAB  
staining.

**— SELECTED CITATIONS —**

- **[IF=8.3]** Cai Bolin. et al. MYH1G-AS is a chromatin-associated lncRNA that regulates skeletal muscle development in chicken. CELL MOL BIOL LETT. 2024 Dec;29(1):1-25 WB ;Chicken. 38177995
- **[IF=5.924]** Jing Zhang. et al. LncRNA SMARCD3-OT1 Promotes Muscle Hypertrophy and Fast-Twitch Fiber

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

Transformation via Enhancing SMARCD3X4 Expression. INT J MOL SCI. 2022 Jan;23(9):4510 WB ;Chicken. 35562902

- **[IF=3.998]** Renli Qi. et al. The intestinal microbiota contributes to the growth and physiological state of muscle tissue in piglets. Sci Rep-Uk. 2021 May;11(1):1-14 WB ;Pig. 34045661