bs-9862R **[Primary Antibody]**

MYH7 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4625 **SWISS:** P12883

Target: MYH7

Immunogen: KLH conjugated synthetic peptide derived from human MYH7: 1301-1500/1935.

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: Myosin heavy chains are ubiquitous Actin-based motor proteins that convert the chemical energy derived from ATP hydrolysis into the mechanical energy that drives diverse motile processes in eukaryotic cells, including cytokinesis, vesicular transport and cellular locomotion. Muscle myosin is a heterohexamer consisting of two myosin heavy chains and two associated nonidentical pairs of myosin light chains. The seven myosin heavy chain isoforms that predominate in mammalian skeletal muscles include two developmental isoforms, MHC-embryonic (MYH3) and MHC-perinatal (MYH8); three adult skeletal muscle isoforms, MHC IIa (MYH2), MHC IIb (MYH4) and MHC IIx/d (MYH1); and MHC- ∫ /slow (MYH7 or MHC- ∫), which is also expressed in cardiac muscle. Research indicates that mutations of the MYH7 gene causes hypertrophic cardiomyopathy.

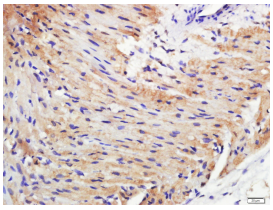
Applications: **IHC-P** (1:400-800)
IHC-F (1:400-800)
IF (1:100-500)

Reactivity: Mouse, Rat (predicted: Human, Sheep, Dog)

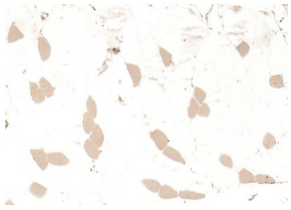
Predicted MW.: 213 kDa

Subcellular Location: Cytoplasm

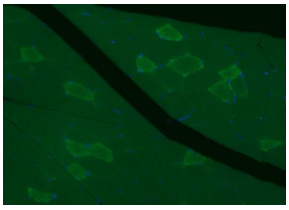
VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (rat heart); 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 (MYH7B) Polyclonal Antibody, Unconjugated (bs-9862R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes 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 (MYH7) Polyclonal Antibody, Unconjugated (bs-9862R) 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; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MYH7) Polyclonal Antibody, Unconjugated (bs-9862R) at 1:200 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-FITC) for 90 minutes, and DAPI for nuclei staining.

SELECTED CITATIONS

- **[IF=10.787]** Andrey Lozhkin. et al. Mitochondrial oxidative stress contributes to diastolic dysfunction through impaired mitochondrial dynamics. REDOX BIOL. 2022 Sep;:102474 IF ;Mouse. 36183542
- **[IF=2.1]** Xue Zhao. et al. MicroRNA-23a-5p mediates the proliferation and differentiation of C2C12 myoblasts. Mol Med

Rep. 2020 Nov;22(5):3705-3714 IF ;Mouse. 32901860

- **[IF=0.6]** Jia Z.. et al. Differential Expression of Skeletal Muscle Sites and Fast and Slow Muscle Fibers in Mongolian Horses. RUSS J GENET+. 2024 Nov;60(11):1504-1515 IHC ;Horse. 10.1134/S1022795424701060