**bs-0259R** **[ Primary Antibody ]**

# heavy chain cardiac Myosin Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 4625 **SWISS:** P12883

**Target:** heavy chain cardiac Myosin

**Immunogen:** KLH conjugated synthetic peptide derived from the middle of human MyHC-beta: 1101-1200/1938.

**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.

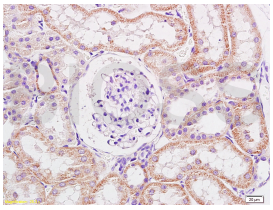
**Applications:** **IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)

**Reactivity:** Rat (predicted: Human, Mouse, Rabbit, Pig, Cow, Chicken, Dog)

**Predicted MW.:** 213 kDa

**Subcellular Location:** Cytoplasm

## VALIDATION IMAGES



Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-SM-MHC Polyclonal Antibody, Unconjugated(bs-0259R) 1:400, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

## SELECTED CITATIONS


- **[IF=6.9]** Qi Chen. et al. Notoginsenoside R1 attenuates ischemic heart failure by modulating MDM2/β arrestin2-mediated β2-adrenergic receptor ubiquitination. BIOMED PHARMACOTHER. 2024 Aug;177:117004 WB ;Rat. 38955084
- **[IF=6.656]** Xiaoyu Tian. et al. Xinbao Pill attenuated chronic heart failure by suppressing the ubiquitination of β-

Adrenergic Receptors. PHYTOMEDICINE. 2023 Apr;:154830 Other ;. 37149964

- **[IF=5.595]** Du J, Zhang P et al. MicroRNA-351-5p mediates skeletal myogenesis by directly targeting lactamase-β and is regulated by lnc-mg.(2018) FASEB J. Sep 14 ICC ;Mouse. 30216112
- **[IF=3.585]** Lv N et al. Perfluorooctanoic acid-induced toxicities in chicken embryo primary cardiomyocytes: Roles of PPAR alpha and Wnt5a/Frizzled2. Toxicol Appl Pharmacol. 2019 Aug 21;381:114716. ICC ;chicken embryo. 31445018
- **[IF=4.49]** Gan M. et al. miR-222 is involved in the regulation of genistein on skeletal muscle fiber type. The Journal of Nutritional Biochemistry(2019). ICC ;Mouse. DOI:10.1016/j.jnutbio.2019.108320