

# MYH7/ $\beta$ -MHC Rabbit pAb

Catalog No.: A7564SP

## Basic Information

### Observed MW

250 kDa

### Calculated MW

223 kDa

### Category

Primary antibody

### Applications

WB,IF-P,ELISA

### Cross-Reactivity

Human, Mouse, Rat

## Background

Muscle myosin is a hexameric protein containing 2 heavy chain subunits, 2 alkali light chain subunits, and 2 regulatory light chain subunits. This gene encodes the beta (or slow) heavy chain subunit of cardiac myosin. It is expressed predominantly in normal human ventricle. It is also expressed in skeletal muscle tissues rich in slow-twitch type I muscle fibers. Changes in the relative abundance of this protein and the alpha (or fast) heavy subunit of cardiac myosin correlate with the contractile velocity of cardiac muscle. Its expression is also altered during thyroid hormone depletion and hemodynamic overloading. Mutations in this gene are associated with familial hypertrophic cardiomyopathy, myosin storage myopathy, dilated cardiomyopathy, and Laing distal myopathy.

## Recommended Dilutions

**WB** 1:1000 - 1:2000

**IF-P** 1:100 - 1:200

**ELISA** Recommended starting concentration is 1  $\mu$ g/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ( $\geq 1:10000$ ) a sequential dilution method is strongly recommended to ensure measurement accuracy.

## Immunogen Information

### Gene ID

4625

### Swiss Prot

P12883

### Immunogen

This information is considered to be commercially sensitive.

### Synonyms

CMH1; MPD1; SPMD; SPMM; CMD1S; MYHCB; CMYP7A; CMYP7B; MYH7/ $\beta$ -MHC

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.

May contain 0.05% BSA as specified on the Certificate of Analysis.

## Contact

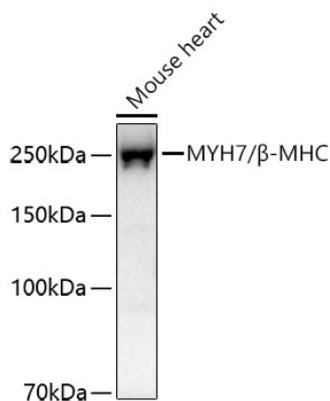
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## Validation Data

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Western blot analysis of lysates from Mouse heart using MYH7/β-MHC Rabbit pAb (A7564SP) at 1:1000 dilution incubated overnight at 4°C.

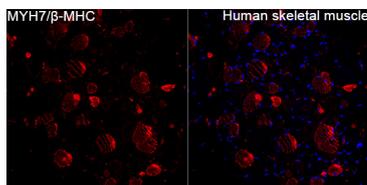
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 20 s.



Immunofluorescence analysis of Human skeletal muscle using MYH7/β-MHC Rabbit pAb (A7564SP) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining.