

## Rabbit Myosin 7B/MHC14 Polyclonal Antibody | anti-MHC14 antibody

Myosin 7B/MHC14 (Hinge region) Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                             |
|-----------|--------|-------------------|------------------------------------------|
| AAA71666  | Rabbit | Human, Rat, Mouse | Immunocytochemistry, ELISA, Western Blot |

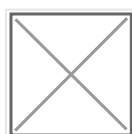
### PRODUCT SYNONYMS

Myosin 7B/MHC14; Polyclonal Antibody; Myosin 7B/MHC14 (Hinge region) Antibody; Myosin 7B/MHC14 (Hinge region); Myosin HC07; anti-MHC14 antibody

### PRODUCT SPECIFICATIONS

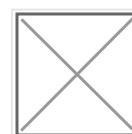
|                                                 |                                                                                                                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                |
| Reactivity                                      | Human, Rat, Mouse                                                                                                                                                                                                                                     |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                            |
| Specificity                                     | This antibody was affinity purified using MYH7B (Hinge region) peptide (without carrier). The antibody detects a 215kDa* protein corresponding to the apparent molecular mass of MYH7B on SDS-PAGE immunoblots of mouse extraocular muscle and brain. |
| Form/Format                                     | Rabbit polyclonal, affinity-purified antibody is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.                                                                                                       |
| Applicable Applications for anti-MHC14 antibody | ICC (Immunocytochemistry), ELISA, WB (Western Blot)                                                                                                                                                                                                   |
| Immunogen                                       | A synthetic peptide (coupled to KLH) corresponding to amino acid residues in the hinge region from mouse MYH7B/MHC14. This sequence is highly conserved in rat and human MYH7B, and has less than 50% identity with other MYH family members.         |
| Preparation and Storage                         | Store at -20 degree C. Stable for 1 year.                                                                                                                                                                                                             |

### IMAGES



#### ICC (Immunocytochemistry)

Immunocytochemical labeling of MYH7B in rat PC12 cells differentiated with NGF. The cells were probed with MYH7B (Hinge region) rabbit polyclonal antibody (MP4551) in the absence (left) or presence (right) of blocking peptide (MX4555). The antibody was detected using appropriate secondary antibody conjugated to DyLight 594.



#### WB (Western Blot)

Western blot analysis MYH7B in mouse brain (lane 1 & 2) and mouse extraocular muscle (lane 3 & 4). The blot was probed with rabbit polyclonal anti-MYH7B/MHC14 (Hinge region) at 1:500 in absence (lanes 1 & 3) and presence of MYH7B blocking peptide (MX4555; lanes 2 & 4).

### ADDITIONAL INFORMATION

#### Related Product Information for anti-MHC14 antibody

Myosin is a highly conserved, ubiquitous protein found in all eukaryotic cells, where it provides the motor function for diverse movements such as cytokinesis, phagocytosis, and muscle contraction. All myosins contain an amino-terminal motor/head domain and a carboxy-terminal tail domain. The class II myosins, consist of the conventional two-headed myosins that form filaments and are composed of two myosin heavy chain (MYH) subunits and four myosin light chain subunits. There are 15 MYH genes identified as Class II myosins and these include six skeletal muscle MYHs (MYH1, MYH2, MYH3, MYH4, MYH8, MYH13), three cardiac MYHs (MYH6, MYH7, MYH7B) and two non-muscle MYHs (MYH9, MYH10), as well as a smooth muscle MYH (MYH11).

|            |                                                                                                                                                                             |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | <p>Rubio, M.D., et al. (2011) J Neurosci. 31(4):1448.</p> <p>Rossi, A.C. et al. (2009) J Physiol. 588(Pt 2):353.</p> <p>Berg, J.S. et al. (2001) Mol Biol Cell. 12:780.</p> |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                               |
|----------------------------------|---------------------------------------------------------------|
| NCBI GI #                        | 145864471                                                     |
| NCBI GeneID                      | 668940                                                        |
| NCBI Accession #                 | NP_001078847.1                                                |
| NCBI GenBank Nucleotide #        | NM_001085378.2                                                |
| UniProt Accession #              | A2AQP0                                                        |
| Molecular Weight                 | 221,497 Da                                                    |
| NCBI Official Full Name          | myosin-7B                                                     |
| NCBI Official Synonym Full Names | myosin, heavy chain 7B, cardiac muscle, beta                  |
| NCBI Official Symbol             | Myh7b                                                         |
| NCBI Official Synonym Symbols    | Myh14                                                         |
| NCBI Protein Information         | myosin-7B; myosin heavy chain 7B, cardiac muscle beta isoform |
| UniProt Protein Name             | Myosin-7B                                                     |
| UniProt Gene Name                | Myh7b                                                         |
| UniProt Entry Name               | MYH7B_MOUSE                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.