

Anti-Myosin(Skeletal, Slow) Antibody (Monoclonal, NOQ7.5.4D)

Catalog # ABO10452

Product Information

Application	WB, IHC-P
Primary Accession	P02564
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Format	Lyophilized
Description	Mouse IgG monoclonal antibody for Myosin (Skeletal, Slow), myosin, heavy chain 7, cardiac muscle, beta (MYH7) detection. Tested with WB, IHC-P in Human;mouse;rabbit;rat. No cross reactivity with other proteins.
Reconstitution	Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Additional Information

Gene ID	29557
Other Names	Myosin-7, Myosin heavy chain 7, Myosin heavy chain slow isoform, MyHC-slow, Myosin heavy chain, cardiac muscle beta isoform, MyHC-beta, Myh7
Calculated MW	223083
Application Details	Immunohistochemistry(Paraffin-embedded Section), 1-2 μ g/ml, Human, mouse, rabbit, rat, By Heat Western blot, 0.5-2 μ g/ml, Human, mouse, rabbit, rat
Subcellular Localization	Cytoplasm, myofibril. Thick filaments of the myofibrils.
Tissue Specificity	MYH7: Both wild type and variant Gln-403 are detected in skeletal muscle (at protein level).
Source	Eukaryota
Protein Name	Myosin-7
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN ₃ as preservative.
Clone Names	NOQ7.5.4D

Immunogen	Human skeletal muscle myosin purified from myofibrils.
Purification	Ascites
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the TRAFAC class myosin-kinesin ATPase superfamily. Myosin family.

Protein Information

Name	Myh7
Function	Myosins are actin-based motor molecules with ATPase activity essential for muscle contraction. Forms regular bipolar thick filaments that, together with actin thin filaments, constitute the fundamental contractile unit of skeletal and cardiac muscle.
Cellular Location	Cytoplasm, myofibril. Cytoplasm, myofibril, sarcomere. Note=Thick filaments of the myofibrils

Background

Myosin is composed of 2 heavy chains of about 200,000 daltons each and 4 light chains of about 20,000 daltons each. Skeletal Myosin(slow), also known as light chain 3(MYL3), mapped to 3p. Fodor et al.(1989) found that the MYL3 gene has 7 exons, the last of which is completely untranslated 3-prime sequence.

Images



Anti-Myosin(Skeletal, Slow) antibody (monoclonal), ABO10452, Western blottingWB: Rat Skeletal Muscle Tissue Lysate

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