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MYH11

Reactivity: Mouse

Tested applications:WB

Recommended Dilution:WB 1:500 - 1:2000

Calculated MW:228kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human MYH11

Storage Buffer:

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

AAT4; DKFZp686D10126; DKFZp686D19237; FAA4; FLJ35232; MGC126726; MGC32963; SMHC; SMMHC

Catalog #:A1498

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:4629

Isotype: IgG

Swiss Prot:P35749

Purity: Affinity purification

For research use only.

Background:

Myosin is a highly conserved, ubiquitously expressed protein that interacts with Actin to generate the force for cellular movements. Conventional Myosins are hexameric proteins consisting of two heavy chain subunits, a pair of non-phosphorylatable light chain subunits and a pair of phosphorylatable light chain subunits. Three general classes of Myosin have been cloned: smooth muscle Myosins (such as MYH11), striated muscle Myosins and non-muscle Myosins. Contractile activity in smooth muscle is regulated by the calcium/calmodulin-dependent phosphorylation of Myosin light chain (MLC) by Myosin light chain kinase. Myosin heavy chains, encoded by the MYH gene family, contain Actin-activated ATPase activity which generates the motor function of Myosin. Myosin heavy chains were initially isolated from a human fetal skeletal muscle and are the major determinant in the speed of contraction of skeletal muscle. Various isoforms of myosin heavy chains are differentially expressed depending on the functional activity of the muscle.

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