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MYH8 Antibody

Catalog # ASC11887

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	P13535
Other Accession	NP_002463, 153945790
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	222763
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	MYH8 antibody can be used for detection of MYH8 by Western blot at 1 - 2 g/ml. Antibody can also be used for immunohistochemistry starting at 5 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	4626
Other Names	Myosin-8, Myosin heavy chain 8, Myosin heavy chain, skeletal muscle, perinatal, MyHC-perinatal, MYH8
Target/Specificity	MYH8; MYH8 antibody is human, mouse and rat reactive. MYH8 antibody is predicted to not cross-react with other members of the myosin heavy chain family.
Reconstitution & Storage	MYH8 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.
Precautions	MYH8 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MYH8
Function	Muscle contraction.
Cellular Location	Cytoplasm, myofibril. Note=Thick filaments of the myofibrils

Background

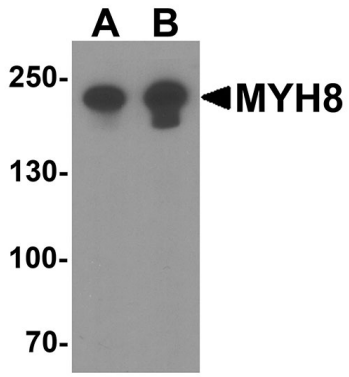
Myosins are actin-based motor proteins that function in the generation of mechanical force in eukaryotic

cells (1). MYH8 (myosin, heavy chain 8, skeletal muscle, perinatal) is a member of the class II or conventional myosin heavy chains, and functions in skeletal muscle contraction (2,3). This gene is predominantly expressed in fetal skeletal muscle. MYH8 is regulated by phosphorylation via myosin light chain kinase (MLCK) and by intracellular Ca2+ concentrations (3). A mutation in this gene results in trismus-pseudocamptodactyly syndrome (4).

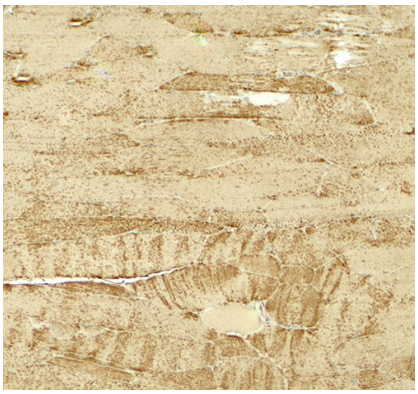
References

Yu H, Waddell JN, Kuang S, et al. Park7 expression influences myotube size and myosin expression in muscle. PLoS One 2014; 9:e92030.
Feghali R and Leinwand LA. Molecular genetic characterization of a developmentally regulated human perinatal myosin heavy chain. J. Cell Biol. 1989; 108:1791-7.
Jullian EH, Kelly AM, Pompidou AJ, et al. Characterization of a human perinatal myosin heavy-chain transcript. Eur. J. Biochem. 1995; 230:1001-6.
Minzer-Conzetti K, Wu E, Vargervik K, et al. Phenotypic variation in trismus-pseudocamptodactyly syndrome caused by a recurrent MYH8 mutation. Clin. Dysmorphol. 2008; 17:1-4.

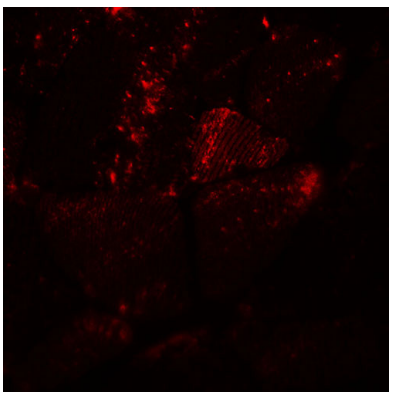
Images



Western blot analysis of MYH8 in HeLa cell lysate with MYH8 antibody at (A) 0.5 and (B) 1 µg/ml.



Immunohistochemistry of MYH8 in mouse skeletal muscle tissue with MYH8 antibody at 5 µg/ml.



Immunofluorescence of MYH8 in mouse skeletal muscle tissue with MYH8 antibody at 20 µg/ml.