10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MYH8 Antibody
Catalog # ASC11887

Specification

MYH8 Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	P13535
Other Accession	NP_002463, 153945790
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 213 kDa** **Observed: 220 kDa KDa**
Application Notes	**MYH8 antibody can be used for detection of MYH8 by Western blot at 1 - 2 µg/ml. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.**

MYH8 Antibody - Additional Information

Gene ID **4626**

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.

MYH8 Antibody - Protein Information

Name MYH8

Function
Muscle contraction.

Cellular Location
Cytoplasm, myofibril. Note=Thick filaments of the myofibrils

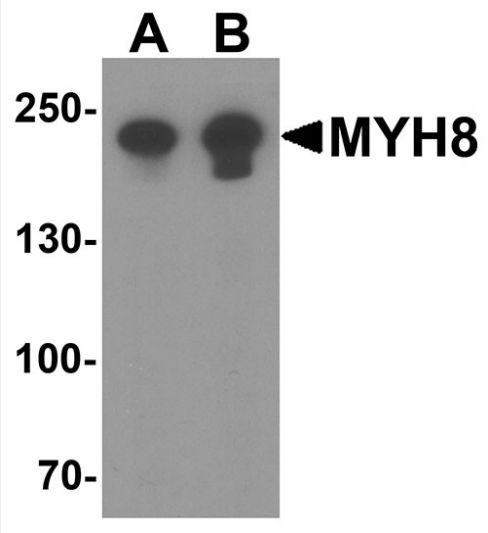
MYH8 Antibody - Protocols

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MYH8 Antibody - Images

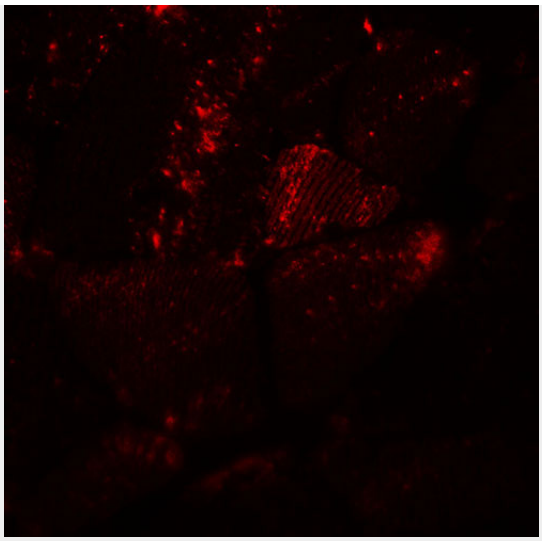


Western blot analysis of MYH8 in HeLa cell lysate with MYH8 antibody at (A) 0.5 and (B) 1 µg/ml.



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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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

MYH8 Antibody - 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).

MYH8 Antibody - 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.