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MYH3 Antibody
Catalog # ASC11890

Specification

MYH3 Antibody - Product Information

Application	**WB, IHC-P, E**
Primary Accession	P11055
Other Accession	NP_002461, 98986453
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 213 kDa** **Observed: 240 kDa KDa**
Application Notes	**MYH3 antibody can be used for detection of MYH3 by Western blot at 1 - 2 µg/ml. Antibody can also be used for immunohistochemistry starting at 5 µg/mL.**

MYH3 Antibody - Additional Information

Gene ID **4621**

Target/Specificity
MYH3; MYH3 antibody is human, mouse and rat reactive. MYH3 antibody is predicted to not cross-react with other members of the myosin heavy chain family.

Reconstitution & Storage
MYH3 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.

Precautions
MYH3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MYH3 Antibody - Protein Information

Name MYH3

Function
Muscle contraction.

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

Tissue Location
Expressed in fetal bone, thymus, placenta, heart, brain, and liver.

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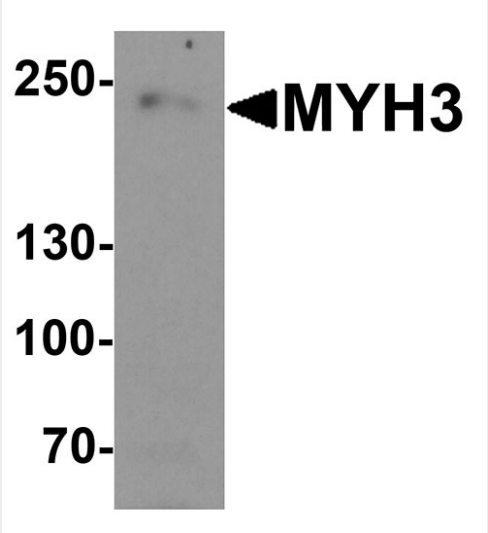
MYH3 Antibody - Protocols

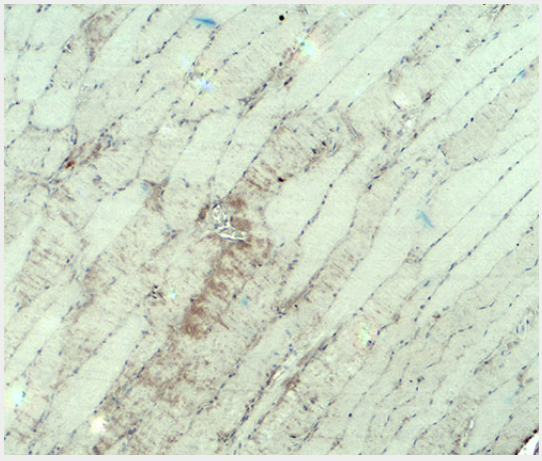
Provided below are standard protocols that you may find useful for product applications.

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

MYH3 Antibody - Images



Western blot analysis of MYH3 in Jurkat cell lysate with MYH3 antibody at 1 µg/ml.



Immunohistochemistry of MYH3 in mouse skeletal muscle tissue with MYH3 antibody at 5 µg/ml.

MYH3 Antibody - Background

Myosins are actin-based motor proteins that function in the generation of mechanical force in eukaryotic cells (1). MYH3 (myosin, heavy chain, skeletal muscle, embryonic) plays a significant role in skeletal muscle development (2) and is also essential for the proper morphology and function of

the developing heart (3). Mutations in this gene have been associated with Freeman-Sheldon syndrome and Sheldon-Hall syndrome (4).

MYH3 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.
Lagrutta AA, McCarthy JG, Scherczinger CA, et al. Identification and developmental expression of a novel embryonic myosin heavy-chain gene in chicken. DNA 1989; 8:39-50.
Rutland CS, Polo-Parada L, Ehler E, et al. Knockdown of embryonic myosin heavy chain reveals an essential role in the morphology and function of the developing heart. Development 2011; 138:3955-66.
Toydemir RM, Rutherford A, Whitby FG, et al. Mutations in embryonic myosin heavy chain (MYH3) cause Freeman-Sheldon syndrome and Sheldon-Hall syndrome. Nat. Genet. 2006; 38:561-5.