

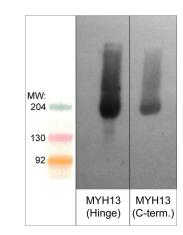
Myosin 13/Extraocular Myosin (Hinge region)

Rabbit Polyclonal

Cat. # MP4571 Size 100 µl

Background

Myosin is a highly conserved, ubiquitous protein found in all eukaryotic cells, where it provides the motor function for diverse movements such as cytokinesis, phagocytosis, and muscle contraction. All myosins contain an amino-terminal motor/head domain and a carboxy-terminal tail domain. The class II myosins, consist of the conventional two-headed myosins that form filaments and are composed of two myosin heavy chain (MYH) subunits and four myosin light chain subunits. There are 15 MYH genes identified as Class II myosins and these include six skeletal muscle MYHs (MYH1, MYH2, MYH3, MYH4, MYH8, MYH13), three cardiac MYHs (MYH6, MYH7, MYH7B) and two non-muscle MYHs (MYH9, MYH10), as well as a smooth muscle MYH (MYH11).



Western blot analysis of MYH13 in mouse extraocular muscle. The blot was probed on the left with anti-MYH13/Extraocular myosin (Hinge region) antibody (MP4571) and on the right with anti-MYH13/Extraocular myosin (C-terminal region) antibody (MP4561).

Background References

Berg, J.S. et al. (2001) Mol Biol Cell. 12:780. Briggs, M.M. & Schachat, F. (2002). J Exp. Biol. 205:3133. Moncman, C.L. et al. (2011) Invest Ophthalmol Vis Sci. 52(7):3962.

Applications

and experiments.

Species Reactivity

WB	1:1000	
ELISA	1:2000	
IHC	1:50	

Hu, Rt, Ms

Specificity

This antibody was affinity purified using MYH13 (C-terminal region) peptide (without carrier). The antibody detects a 215 kDa* protein corresponding to the apparent molecular mass of MYH13 on SDS-PAGE immunoblots of mouse extraocular muscle, and does not detect MYHs in mouse diaphragm, gastrocnemius, or brain.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

Immunogen Uniprot ID: B1AR69

End user should determine optimal dilution for their particular applications

Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

A synthetic peptide (coupled to KLH) corresponding to amino acid residues in the hinge region from mouse MYH13/extraocular myosin. This sequence has 100% identity with rat and human MYH13, and has low homology to other myosin family members.

Buffer and Storage

Rabbit polyclonal, affinity-purified antibody is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

Related Products

MK6370	Myosin IIA Heavy Chain Phospho-Regulation Antibody Sampler Kit	
MP4541	Myosin 4/MyHC-IIB (C-terminus) Rabbit Polyclonal	
MP4551	Myosin 7B/MHC14 (Hinge region) Rabbit Polyclonal	
MP4561	Myosin 13/Extraocular Myosin (C-terminal region) Rabbit Polyclonal	
MK6490	Myosin Light Chain Phospho-Regulation Antibody Sampler Kit	

Product References

Mead, AF et al. (2017) Elife. 6. pii: e29425. IHC: bat extraocular muscle

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