

# Product Data Sheet

## Purified anti-Myosin heavy chain

**Catalog # / Size:** 621201 / 25 µl  
621202 / 100 µl

**Clone:** Poly6212

**Isotype:** Rabbit IgG

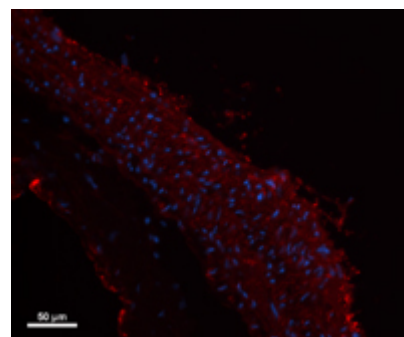
**Immunogen:** Recombinant

**Reactivity:** Human, **Cross-Reactivity:** Rat; reacts against 1960 aa length myosin heavy chain

**Preparation:** The antibody was purified by antigen-affinity chromatography.

**Formulation:** This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol.

**Storage:** Upon receipt, store frozen at -20° C.

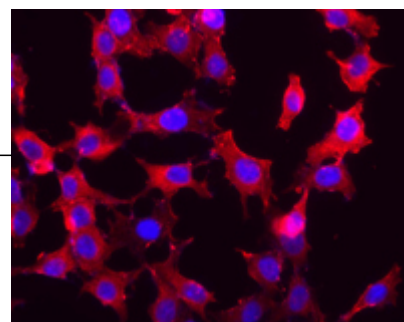


Rat carotid artery frozen sections were stained with Poly6212, followed by anti-rabbit Alexa Fluor® 594 and DAPI staining.

## Applications:

**Applications:** IF

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescence staining. For immunofluorescence microscopy: Use a dilution range of 1:100~1:400. It is recommended that the reagent be titrated for optimal performance for each application.



HeLa cells stained with purified rabbit polyclonal antibody against Myosin heavy chain (poly6212), followed by Cy3 conjugated Donkey anti-rabbit IgG and DAPI.

**Description:** Myosin heavy chain is an actin-based motor protein with an approximate molecular weight of 223 kD. Myosin heavy chain can be split into 1 light meromyosin and 1 heavy meromyosin chain (and further into 2 globular subfragments and 1 rod-shaped subfragment). This protein is highly expressed in muscle. Motor proteins that convert chemical energy derived from ATP hydrolysis into mechanical force that drives motile processes such as cytokinesis, vesicular transport, and cellular locomotion. Myosin heavy chain is modified by acetylation in cysteine residues in the S1 domain for myosin ATPase activity. Muscle myosin is a hexameric protein consisting of 2 heavy chain subunits and 2 alkali light chain subunits and 2 regulatory light chain subunits that forms filaments.

**Antigen References:** 1. Weiss A, et al. 1999. *P. Natl. Acad. Sci. USA* 96:2598.  
2. Schiaffino S, et al. 1996. *Physiol. Rev.* 76:371 (review)

| Related Products: | Product                                                              | Clone    | Application    |
|-------------------|----------------------------------------------------------------------|----------|----------------|
|                   | Purified anti-Myosin regulatory light chain--Phosphorylated (Ser 19) | 3A6      | WB             |
|                   | HRP Donkey anti-rabbit IgG (minimal x-reactivity)                    | Poly4064 | ELISA, IHC, WB |



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