

**Functional Myosin IIA (non-muscle) (heavy chain) Antibody, mAb (recombinant)  
Catalog # ADP0041****Specification****Functional Myosin IIA (non-muscle) (heavy chain) Antibody, mAb (recombinant) - Product Information**

Application	WB, ICC, E
Primary Accession	<a href="#">Q9UKX2</a>
Reactivity	Human, Mouse, Rat, Drosophila
Host	Purified From HEK 293 Cell culture Supernatant.
Clonality	Monoclonal
Isotype	Human IgG2 $\lambda$
Gene Source	Human
Application Note	,Electron Microscopy,E,ICC(1:1000),WB(1:1000) 223044
Calculated MW	WB~~1:1000
Dilution	ICC~~N/A E~~N/A
Description	anti-Myosin IIA (non-muscle), monoclonal antibody (recombinant) (SF9) is composed of human variable regions (VH and VL) ( $\lambda$ -chain) of immunoglobulin fused to the human IgG2 Fc domain.

**Functional Myosin IIA (non-muscle) (heavy chain) Antibody, mAb (recombinant) - Additional Information****Gene ID 4620****Other Names**

Cellular Myosin Heavy Chain, Type A; Myosin Heavy Chain 9; Myosin Heavy Chain, Non-muscle IIA; Non-muscle Myosin Heavy Chain A

**Target/Specificity**

Recognizes human, mouse, rat and drosophila myosin IIA (heavy chain).

**Format**

Liquid. In PBS containing 10% glycerol and 0.02% sodium azide.

**Reconstitution & Storage**

Stable for at least 1 month after receipt when stored at +4°C. Stable for at least 1 year after receipt when stored at -20°C.

**Precautions**

Functional Myosin IIA (non-muscle) (heavy chain) Antibody, mAb (recombinant) is for research use only and not for use in diagnostic or therapeutic procedures.

**Functional Myosin IIA (non-muscle) (heavy chain) Antibody, mAb (recombinant) - Protein Information**

Name MYH2 ([HGNC:7572](#))

**Synonyms** MYHSA2

**Function**

Myosins are actin-based motor molecules with ATPase activity essential for muscle contraction.

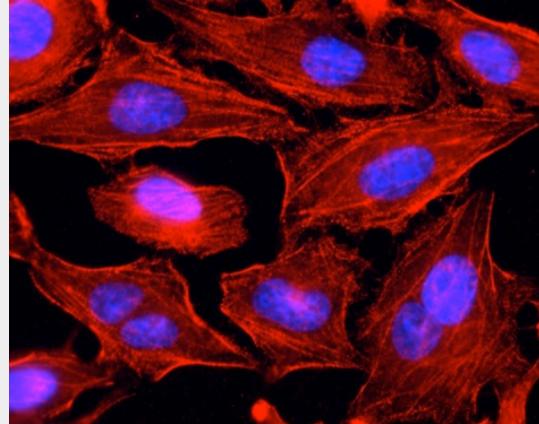
**Cellular Location**

Cytoplasm, myofibril {ECO:0000250|UniProtKB:G3UW82}. Note=Thick filaments of the myofibrils

**Functional Myosin IIA (non-muscle) (heavy chain) Antibody, mAb (recombinant) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Functional Myosin IIA (non-muscle) (heavy chain) Antibody, mAb (recombinant) - Images**

Human Myosin IIA (non-muscle) (heavy chain) is detected by immunocytochemistry using anti-myosin IIA (non-muscle) (rec.) (SF9).

Method: HeLa cells are grown in standard culture conditions, fixed with methanol, and incubated with anti-Myosin IIA (non-muscle) (rec.) (SF9) (1mg /ml in PBS-BSA). After incubation for 30 min at RT and several washes in PBS, cells are treated with a goat anti-human (Cy3) antibody for 30 min at RT, washed and mounted in Moewiol. Nuclei are stained with DAPI.

Picture courtesy of Dr. Moutel, Dr. Franck Perez lab, Curie Institute, Paris.

**Functional Myosin IIA (non-muscle) (heavy chain) Antibody, mAb (recombinant) - Background**

anti-Myosin IIA (non-muscle), monoclonal antibody (recombinant) (SF9) is an antibody developed by antibody phage display technology using a human naive antibody gene library. These libraries consist of scFv (single chain fragment variable) composed of VH (variable domain of the human immunoglobulin heavy chain) and VL (variable domain of the human immunoglobulin light chain) connected by a polypeptide linker. The antibody fragments are displayed on the surface of filamentous bacteriophage (M13). This scFv was selected by affinity selection on antigen in a process termed panning. Multiple rounds of panning are performed to enrich for antigen-specific scFv-phage. Monoclonal antibodies are subsequently identified by screening after each round of selection. The selected monoclonal scFv is cloned into an appropriate vector containing a Fc portion of interest and then produced in mammalian cells to generate an IgG like scFv-Fc fusion protein.