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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	**ICC**
Primary Accession	Q9UKX2
Reactivity	**Human, Mouse, Rat, Drosophila**
Host	**Purified From HEK 293 Cell culture Supernatant.**
Clonality	**Monoclonal**
Isotype	**Human IgG2λ**
Gene Source	**Human**
Application Note	**,Electron Microscopy,E,ICC(1:1000),WB(1:1000)**
Calculated MW	**223044**
Description	**anti-Myosin IIA (non-muscle), monoclonal antibody (recombinant) (SF9) is composed of human variable regions (VH and VL) (λ-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.

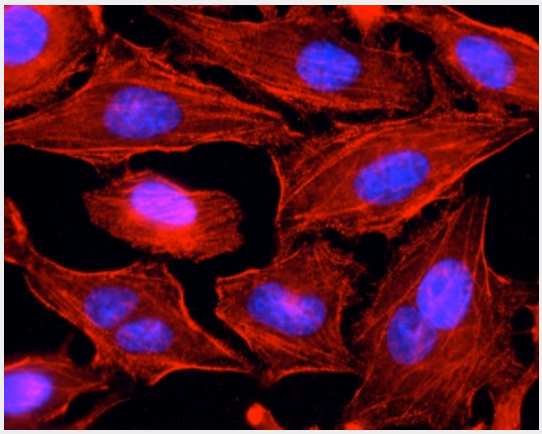
Cellular Location
Cytoplasm, myofibril {ECO:0000250|UniProtKB:G3UW82}. Note=Thick filaments of the myofibrils

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 Cytomety
- 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.