

Anti-MYO10 Antibody
Catalog # AP54008**Specification**

Anti-MYO10 Antibody - Product Information

Application	WB
Primary Accession	Q9HD67
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	237347

Anti-MYO10 Antibody - Additional Information**Gene ID** 4651**Other Names**

KIAA0799; Unconventional myosin-X; Unconventional myosin-10

Target/Specificity

Recognizes endogenous levels of MYO10 protein.

Dilution

WB~~1/500 - 1/1000

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C.Stable for 12 months from date of receipt

Anti-MYO10 Antibody - Protein Information**Name** MYO10**Synonyms** KIAA0799**Function**

Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. MYO10 binds to actin filaments and actin bundles and functions as a plus end-directed motor. Moves with higher velocity and takes larger steps on actin bundles than on single actin filaments (PubMed:27580874). The tail domain binds to membranous compartments containing phosphatidylinositol 3,4,5-trisphosphate or integrins, and mediates cargo transport along actin filaments. Regulates cell shape, cell spreading and cell adhesion. Stimulates the formation and elongation of filopodia. In hippocampal neurons it induces the formation of dendritic filopodia by trafficking the actin-remodeling protein VASP to the tips of filopodia, where it

promotes actin elongation. Plays a role in formation of the podosome belt in osteoclasts.

Cellular Location

Cytoplasm, cytosol. Cell projection, lamellipodium. Cell projection, ruffle. Cytoplasm, cytoskeleton. Cell projection, filopodium tip. Cytoplasm, cell cortex. Cell projection, filopodium membrane; Peripheral membrane protein. Note=May be in an inactive, monomeric conformation in the cytosol. Detected in cytoplasmic punctae and in cell projections. Colocalizes with actin fibers. Undergoes forward and rearward movements within filopodia Interacts with microtubules

Tissue Location

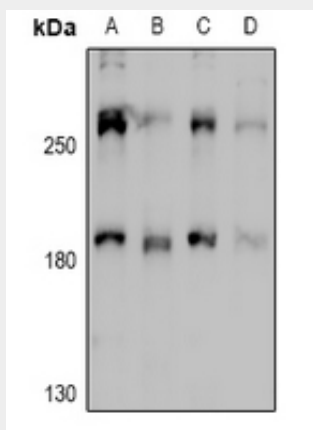
Ubiquitous..

Anti-MYO10 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 Cytometry](#)
- [Cell Culture](#)

Anti-MYO10 Antibody - Images



Western blot analysis of MYO10 expression in Hela (A), A2780 (B), C6 (C), NIH3T3 (D) whole cell lysates.

Anti-MYO10 Antibody - Background

Rabbit polyclonal antibody to MYO10