

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

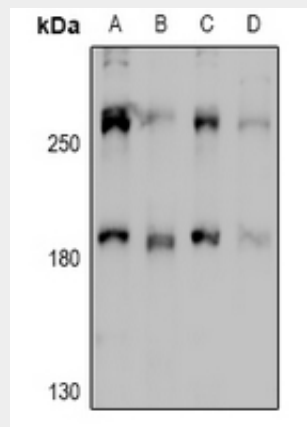
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|-------------------|--------------------------|
| Application | WB |
| Primary Accession | Q9HD67 |
| Reactivity | Human, Mouse, Rat |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 237347 |

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

FormatLiquid in 0.42% Potassium phosphate,
0.87% Sodium chloride, pH 7.3, 30%
glycerol, and 0.01% 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 plus end-directed

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

motor. 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. May play a role in neurite outgrowth and axon guidance. 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](#)