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MYO1E Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16650a

Specification

MYO1E Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q12965
Other Accession	NP_004989.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**127062**
Antigen Region	**228-257**

MYO1E Antibody (N-term) - Additional Information

Gene ID 4643

Other Names
Unconventional myosin-Ie, Myosin-Ic, Unconventional myosin 1E, MYO1E, MYO1C

Target/Specificity
This MYO1E antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 228-257 amino acids from the N-terminal region of human MYO1E.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MYO1E Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MYO1E Antibody (N-term) - Protein Information

Name MYO1E

Synonyms MYO1C

Function Actin-based motor molecule with ATPase activity (PubMed:11940582, PubMed:36316095). Unconventional myosins serve in intracellular movements. Their highly divergent tails bind to membranous compartments, which are then moved relative to actin filaments. Binds to membranes containing anionic phospholipids via its tail domain. Involved in clathrin-mediated endocytosis and intracellular movement of clathrin-coated vesicles (PubMed:36316095). Required for normal morphology of the glomerular basement membrane, normal development of foot processes by kidney podocytes and normal kidney function. In dendritic cells, may control the movement of class II-containing cytoplasmic vesicles along the actin cytoskeleton by connecting them with the actin network via ARL14EP and ARL14.

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:E9Q634}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:E9Q634}. Cytoplasmic vesicle {ECO:0000250|UniProtKB:E9Q634}. Cytoplasmic vesicle, clathrin- coated vesicle. Cell junction. Note=Colocalizes with F-actin (By similarity). In cultured podocytes, it localizes close to and is associated with the cytoplasmic membrane, with enrichment at the lamellipodia tips. Colocalizes with cytoplasmic vesicles, including endocytic clathrin-coated vesicles. Colocalizes with dynamin at cytoplasmic vesicles.

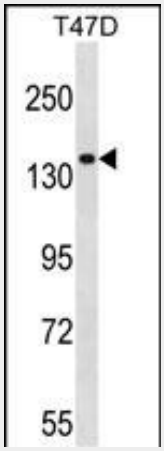
Tissue Location
Expressed in the immune system. In the kidney, predominantly expressed in the glomerulus, including podocytes

MYO1E Antibody (N-term) - 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

MYO1E Antibody (N-term) - Images



MYO1E Antibody (N-term) (Cat. #AP16650a) western blot analysis in T47D cell line lysates (35ug/lane).This demonstrates the MYO1E antibody detected the MYO1E protein (arrow).

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MYO1E Antibody (N-term) - Background

Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. Their highly divergent tails are presumed to bind to membranous compartments, which would be moved relative to actin filaments (By similarity).

MYO1E Antibody (N-term) - References

Feeser, E.A., et al. Biochemistry 49(43):9353-9360(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Krendel, M., et al. FEBS Lett. 581(4):644-650(2007)
Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006)
El Mezgueldi, M., et al. J. Biol. Chem. 277(24):21514-21521(2002)