

MYO1E Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP16650a**Specification**

MYO1E Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q12965](#)**MYO1E Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 4643**Other Names**

Unconventional myosin-le, Myosin-lc, Unconventional myosin 1E, MYO1E, MYO1C

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MYO1E Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MYO1E Antibody (N-term) Blocking Peptide - Images**MYO1E Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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)