

EHD2 Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP21050a**Specification**

EHD2 Blocking Peptide (C-term) - Product InformationPrimary Accession [Q9NZN4](#)**EHD2 Blocking Peptide (C-term) - Additional Information****Gene ID** 30846**Other Names**

EH domain-containing protein 2, PAST homolog 2, EHD2, PAST2

Target/Specificity

The synthetic peptide sequence is selected from aa 415-429 of HUMAN EHD2

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.

EHD2 Blocking Peptide (C-term) - Protein Information**Name** EHD2 ([HGNC:3243](#))**Function**

ATP- and membrane-binding protein that controls membrane reorganization/tubulation upon ATP hydrolysis (By similarity). Plays a role in membrane trafficking between the plasma membrane and endosomes (PubMed:17233914). Important for the internalization of GLUT4. Required for fusion of myoblasts to skeletal muscle myotubes. Required for normal translocation of FER1L5 to the plasma membrane (By similarity). Regulates the equilibrium between cell surface-associated and cell surface-dissociated caveolae by constraining caveolae at the cell membrane (PubMed:25588833).

Cellular Location

Cell membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:Q8BH64}; Cytoplasmic side {ECO:0000250|UniProtKB:Q8BH64}. Membrane, caveola; Peripheral membrane protein {ECO:0000250|UniProtKB:Q8BH64}; Cytoplasmic side {ECO:0000250|UniProtKB:Q8BH64}. Endosome membrane {ECO:0000250|UniProtKB:Q4V8H8}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q4V8H8}; Cytoplasmic side {ECO:0000250|UniProtKB:Q4V8H8}.

Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q8BH64}. Note=Colocalizes with GLUT4 in intracellular tubulovesicular structures that are associated with cortical F-actin. Colocalizes with FER1L5 at plasma membrane in myoblasts and myotubes. {ECO:0000250|UniProtKB:Q8BH64}

Tissue Location

Highly expressed in heart and moderately expressed in placenta, lung, and skeletal muscle.

EHD2 Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

EHD2 Blocking Peptide (C-term) - Images**EHD2 Blocking Peptide (C-term) - Background**

Plays a role in membrane reorganization in response to nucleotide hydrolysis. Binds to liposomes and deforms them into tubules. Plays a role in membrane trafficking between the plasma membrane and endosomes. Important for the internalization of GLUT4. Required for normal fusion of myoblasts to skeletal muscle myotubes. Required for translocation of FER1L5 to the plasma membrane. Binds ATP; does not bind GTP (By similarity).

EHD2 Blocking Peptide (C-term) - References

Pohl U., et al. Genomics 63:255-262(2000).
Benjamin S., et al. Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. Nat. Genet. 36:40-45(2004).
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Aboulaich N., et al. Biochem. J. 383:237-248(2004).