

ASTN2 Blocking Peptide(N-term)
Synthetic peptide
Catalog # BP19699a**Specification**

ASTN2 Blocking Peptide(N-term) - Product Information

Primary Accession [O75129](#)
Other Accession [Q80Z10](#), [NP_001171664.1](#), [NP_054729.3](#),
[NP_937829.3](#), [NP_937831.1](#)

ASTN2 Blocking Peptide(N-term) - Additional Information

Gene ID 23245

Other Names

Astrotactin-2, ASTN2, KIAA0634

Target/Specificity

The synthetic peptide sequence is selected from aa 235-248 of HUMAN ASTN2

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.

ASTN2 Blocking Peptide(N-term) - Protein Information

Name ASTN2

Synonyms KIAA0634

Function

Mediates recycling of the neuronal cell adhesion molecule ASTN1 to the anterior pole of the cell membrane in migrating neurons. Promotes ASTN1 internalization and intracellular transport of endocytosed ASTN1 (By similarity). Selectively binds inositol-4,5- biphosphate, inositol-3,4,5-trisphosphate and inositol-1,3,4,5- tetrakisphosphate, suggesting it is recruited to membranes that contain lipids with a phosphoinositide headgroup (Ref.6).

Cellular Location

Membrane {ECO:0000250|UniProtKB:Q80Z10}; Multi- pass membrane protein {ECO:0000250|UniProtKB:Q80Z10}. Perikaryon {ECO:0000250|UniProtKB:Q80Z10}. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q80Z10}. Early endosome {ECO:0000250|UniProtKB:Q80Z10}. Late endosome {ECO:0000250|UniProtKB:Q80Z10}.

Cytoplasmic vesicle, clathrin-coated vesicle {ECO:0000250|UniProtKB:Q80Z10}. Cytoplasmic vesicle {ECO:0000250|UniProtKB:Q80Z10}. Note=Integral membrane protein not detected at the cell membrane. Detected in cytoplasmic vesicles in the cell cortex, close to the anterior pole of migrating neurons. Detected at the base of the leading process in migrating neurons {ECO:0000250|UniProtKB:Q80Z10}

ASTN2 Blocking Peptide(N-term) - Protocols

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

- [Blocking Peptides](#)

ASTN2 Blocking Peptide(N-term) - Images

ASTN2 Blocking Peptide(N-term) - Background

This gene encodes a protein that is expressed in the brain and may function in neuronal migration, based on functional studies of the related astrotactin 1 gene in human and mouse. A deletion at this locus has been associated with schizophrenia. Multiple transcript variants encoding different proteins have been found for this locus.

ASTN2 Blocking Peptide(N-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Adkins, D.E., et al. Mol. Psychiatry (2010) In press :
Lesch, K.P., et al. J Neural Transm 115(11):1573-1585(2008)
Vrijenhoek, T., et al. Am. J. Hum. Genet. 83(4):504-510(2008)