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SRC8 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP9247a

Specification

SRC8 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q14247

SRC8 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 2017

Other Names
Src substrate cortactin, Amplaxin, Oncogene EMS1, CTTN, EMS1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP9247a was selected from the N-term region of human SRC8. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

SRC8 Antibody (N-term) Blocking Peptide - Protein Information

Name CTTN

Synonyms EMS1

SRC8 Antibody (N-term) Blocking Peptide - Background

SRC8 is overexpressed in breast cancer and squamous cell carcinomas of the head and neck. The encoded protein is localized in the cytoplasm and in areas of the cell-substratum contacts. This protein has two roles: (1) regulating the interactions between components of adherens-type junctions and (2) organizing the cytoskeleton and cell adhesion structures of epithelia and carcinoma cells. During apoptosis, the encoded protein is degraded in a caspase-dependent manner. The aberrant regulation of this protein contributes to tumor cell invasion and metastasis.

SRC8 Antibody (N-term) Blocking Peptide - References

Xu,X.Z., et.al, Mod. Pathol. 23 (2), 187-196 (2010)Saitoh,Y., et.al, Int. J. Oncol. 35 (6), 1277-1288 (2009)

Function

Contributes to the organization of the actin cytoskeleton and cell shape (PubMed:21296879). Plays a role in the formation of lamellipodia and in cell migration. Plays a role in the regulation of neuron morphology, axon growth and formation of neuronal growth cones (By similarity). Through its interaction with CTTNBP2, involved in the regulation of neuronal spine density (By similarity). Plays a role in the invasiveness of cancer cells, and the formation of metastases (PubMed:16636290). Plays a role in focal adhesion assembly and turnover (By similarity). In complex with ABL1 and MYLK regulates cortical actin-based cytoskeletal rearrangement critical to sphingosine 1- phosphate (S1P)-mediated endothelial cell (EC) barrier enhancement (PubMed:20861316). Plays a role in intracellular protein transport and endocytosis, and in modulating the levels of potassium channels present at the cell membrane (PubMed:17959782). Plays a role in receptor- mediated endocytosis via clathrin-coated pits (By similarity). Required for stabilization of KCNH1 channels at the cell membrane (PubMed:23144454).

Cellular Location

Cytoplasm, cytoskeleton. Cell projection, lamellipodium. Cell projection, ruffle. Cell projection, dendrite. Cell projection {ECO:0000250|UniProtKB:Q66HL2}. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, podosome {ECO:0000250|UniProtKB:Q01406}. Cell junction {ECO:0000250|UniProtKB:Q66HL2}. Cell junction, focal adhesion {ECO:0000250|UniProtKB:Q66HL2}. Membrane, clathrin-coated pit {ECO:0000250|UniProtKB:Q66HL2}. Cell projection, dendritic spine. Cytoplasm, cell cortex Note=Colocalizes transiently with PTK2/FAK1 at focal adhesions (By similarity). Associated with membrane

ruffles and lamellipodia. In the presence of CTTNBP2NL, colocalizes with stress fibers (By similarity) In the presence of CTTNBP2, localizes at the cell cortex (By similarity). In response to neuronal activation by glutamate, redistributes from dendritic spines to the dendritic shaft (By similarity). Colocalizes with DNM2 at the basis of filopodia in hippocampus neuron growth zones (By similarity) {ECO:0000250|UniProtKB:Q60598, ECO:0000250|UniProtKB:Q66HL2}

SRC8 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides