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FAM107A Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP17097a

Specification

FAM107A Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O95990

FAM107A Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 11170

Other Names
Protein FAM107A, Down-regulated in renal cell carcinoma 1, Protein TU3A, FAM107A, DRR1, TU3A

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.

FAM107A Antibody (N-term) Blocking Peptide - Protein Information

Name FAM107A (HGNC:30827)

Function
Stress-inducible actin-binding protein that plays a role in synaptic and cognitive functions by modulating actin filamentous (F- actin) dynamics. Mediates polymerization of globular actin to F-actin. Also binds to, stabilizes and bundles F-actin. Involved in synaptic function by regulating neurite outgrowth in an actin-dependent manner and for the acquisition of hippocampus-dependent cognitive function, such as learning and long-term memory (By similarity). Plays a role in the actin and microtubule cytoskeleton organization; negatively regulates focal adhesion (FA) assembly promoting malignant glial cell migration in an actin-, microtubule- and MAP1A-dependent manner (PubMed:20543869). Also involved in neuroblastoma G1/S phase cell cycle progression and cell proliferation inhibition by stimulating ubiquitination of NF-kappa-B subunit RELA and NF-kappa-B degradation in a COMMD1- and actin-dependent manner (PubMed:10564580, PubMed:28604741). May play a role in tumor development (PubMed:10564580).

Cellular Location
Nucleus. Cytoplasm, cytoskeleton, stress fiber. Cell junction, focal adhesion. Cell projection, ruffle

membrane. Synapse {ECO:0000250|UniProtKB:Q78TU8}. Note=Colocalizes with F-actin and COMMD1 in the nucleus (PubMed:28604741). Colocalizes with MAP1A along actin stress fibers and membrane ruffles (PubMed:20543869)

Tissue Location
Widely expressed (PubMed:10564580). Expressed in neurons (PubMed:20543869). Expressed in malignant glial tumors (PubMed:20543869). Expression is reduced or absent in a number of cancer cell lines (PubMed:10564580).

FAM107A Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

FAM107A Antibody (N-term) Blocking Peptide - Images

FAM107A Antibody (N-term) Blocking Peptide - Background

When transfected into cell lines in which it is not expressed, suppresses cell growth. May play a role in tumor development.

FAM107A Antibody (N-term) Blocking Peptide - References

Stahl, E.A., et al. Nat. Genet. 42(6):508-514(2010)Asano, Y., et al. Biochem. Biophys. Res. Commun. 394(3):829-835(2010)Awakura, Y., et al. Int. J. Oncol. 33(4):893-899(2008)Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Kholodnyuk, I.D., et al. Int. J. Cancer 119(1):99-107(2006)