10320 Camino Santa Fe, Suite G
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STAU1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP18806a

Specification

STAU1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O95793

STAU1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 6780

Other Names
Double-stranded RNA-binding protein Staufen homolog 1, STAU1, STAU

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.

STAU1 Antibody (N-term) Blocking Peptide - Protein Information

Name STAU1

Synonyms STAU

Function
Binds double-stranded RNA (regardless of the sequence) and tubulin. May play a role in specific positioning of mRNAs at given sites in the cell by cross-linking cytoskeletal and RNA components, and in stimulating their translation at the site.

Cellular Location
Cytoplasm. Rough endoplasmic reticulum. Note=Localizes exclusively with the rough reticulum endoplasmic (RER)

Tissue Location
Widely expressed. Expressed in brain, pancreas, heart, skeletal muscles, liver, lung, kidney and placenta

STAU1 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

STAU1 Antibody (N-term) Blocking Peptide - Images

STAU1 Antibody (N-term) Blocking Peptide - Background

Staufen is a member of the family of double-stranded RNA(dsRNA)-binding proteins involved in the transport and/orlocalization of mRNAs to different subcellular compartments and/ororganelles. These proteins are characterized by the presence ofmultiple dsRNA-binding domains which are required to bind RNAshaving double-stranded secondary structures. The human homologue ofstaufen encoded by STAU, in addition contains a microtubule-binding domain similar to that of microtubule-associated protein1B, and binds tubulin. The STAU gene product has been shown to bepresent in the cytoplasm in association with the rough endoplasmicreticulum (RER), implicating this protein in the transport of mRNAvia the microtubule network to the RER, the site of translation.Five transcript variants resulting from alternative splicing ofSTAU gene and encoding three isoforms have been described. Three ofthese variants encode the same isoform, however, differ in their5'UTR.

STAU1 Antibody (N-term) Blocking Peptide - References

de Lucas, S., et al. J. Virol. 84(15):7603-7612(2010)Martel, C., et al. RNA 16(3):585-597(2010)Abrahamyan, L.G., et al. J. Cell. Sci. 123 (PT 3), 369-383 (2010) :Milev, M.P., et al. Retrovirology 7, 41 (2010) :Weidensdorfer, D., et al. RNA 15(1):104-115(2009)