

CASC3 Blocking Peptide (C-term)

Synthetic peptide

Catalog # BP7264b

Specification

CASC3 Blocking Peptide (C-term) - Product Information

Primary Accession

[Q8K3W3](#)

Other Accession

[Q8K3X0](#), [O15234](#), [A5D7H5](#), [NP_619601](#)**CASC3 Blocking Peptide (C-term) - Additional Information****Gene ID** 192160**Other Names**

Protein CASC3, Cancer susceptibility candidate gene 3 protein homolog, Metastatic lymph node gene 51 protein homolog, MLN 51 homolog, Protein barentsz, Btz, mBtz, Casc3, Mln51

Target/Specificity

The synthetic peptide sequence is selected from aa 217-233 of MOUSE Casc3

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.

CASC3 Blocking Peptide (C-term) - Protein Information**Name** Casc3**Synonyms** Mln51**Function**

Required for pre-mRNA splicing as component of the spliceosome. Core component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junctions on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. The EJC marks the position of the exon-exon junction in the mature mRNA for the gene expression machinery and the core components remain bound to spliced mRNAs throughout all stages of mRNA metabolism thereby influencing downstream processes including nuclear mRNA export, subcellular mRNA localization, translation efficiency and nonsense-mediated mRNA decay (NMD). Stimulates the ATPase and RNA-helicase activities of EIF4A3. Plays a role in the stress response by participating in cytoplasmic stress granules assembly and by favoring cell recovery following stress. Component of the dendritic

ribonucleoprotein particles (RNPs) in hippocampal neurons. May play a role in mRNA transport. Binds spliced mRNA in sequence-independent manner, 20-24 nucleotides upstream of mRNA exon-exon junctions. Binds poly(G) and poly(U) RNA homomer.

Cellular Location

Cytoplasm. Cytoplasm, perinuclear region. Nucleus. Nucleus speckle {ECO:0000250|UniProtKB:O15234}. Cytoplasm, Stress granule {ECO:0000250|UniProtKB:O15234}. Cytoplasm, Cytoplasmic ribonucleoprotein granule. Cell projection, dendrite. Note=Shuttles between the nucleus and the cytoplasm in a XPO1/CRM1-dependent manner (PubMed:12843282). Transported to the cytoplasm as part of the exon junction complex (EJC) bound to mRNA. In nuclear speckles, colocalizes with MAGOH. Under stress conditions, colocalizes with FMR1 and TIA1, but not MAGOH and RBM8A EJC core factors, in cytoplasmic stress granules (By similarity). In the dendrites of hippocampal neurons, localizes to dendritic ribonucleoprotein granules (Probable) {ECO:0000250|UniProtKB:O15234, ECO:0000269|PubMed:12843282, ECO:0000305|PubMed:12843282}

Tissue Location

High levels in heart, brain, including hippocampus and cerebellum, liver, kidney and testis; lower levels in muscle, lung and spleen.

CASC3 Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

CASC3 Blocking Peptide (C-term) - Images**CASC3 Blocking Peptide (C-term) - Background**

Component of the dendritic ribonucleoprotein particles (RNPs) in hippocampal neurons. May play a role in mRNA transport.

CASC3 Blocking Peptide (C-term) - References

Macchi,P., J. Neurosci. 23 (13), 5778-5788 (2003)
Degot,S., Oncogene 21 (28), 4422-4434 (2002)