

**CASC3 Antibody (Y181) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7264d****Specification**

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**CASC3 Antibody (Y181) Blocking Peptide - Product Information**

Primary Accession [O15234](#)  
Other Accession [NP\\_619601](#)

**CASC3 Antibody (Y181) Blocking Peptide - Additional Information**

**Gene ID** 22794

**Other Names**

Protein CASC3, Cancer susceptibility candidate gene 3 protein, Metastatic lymph node gene 51 protein, MLN 51, Protein barentsz, Btz, CASC3, MLN51

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7264d](/products/AP7264d) was selected from the Y181 region of human CASC3. 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.

**CASC3 Antibody (Y181) Blocking Peptide - Protein Information**

**Name** CASC3

**Synonyms** MLN51 {ECO:0000303|PubMed:12080473}

**Function**

Required for pre-mRNA splicing as component of the spliceosome (PubMed:[28502770](http://www.uniprot.org/citations/28502770), PubMed:[29301961](http://www.uniprot.org/citations/29301961)). 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 {ECO:0000250|UniProtKB:Q8K3W3}. Nucleus. Nucleus speckle. Cytoplasm, Stress granule. Cytoplasm, Cytoplasmic ribonucleoprotein granule {ECO:0000250|UniProtKB:Q8K3X0}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q8K3X0}. Note=Shuttles between the nucleus and the cytoplasm in a XPO1/CRM1-dependent manner. Transported to the cytoplasm as part of the exon junction complex (EJC) bound to mRNA (PubMed:15166247). 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 (PubMed:17652158). In the dendrites of hippocampal neurons, localizes to dendritic ribonucleoprotein granules (By similarity) {ECO:0000250|UniProtKB:Q8K3X0, ECO:0000269|PubMed:15166247, ECO:0000269|PubMed:17652158}

#### **Tissue Location**

Widely expressed. Overexpressed in breast cancers and metastasis, as well as in gastric cancers

### **CASC3 Antibody (Y181) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **CASC3 Antibody (Y181) Blocking Peptide - Images**

### **CASC3 Antibody (Y181) Blocking Peptide - Background**

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

### **CASC3 Antibody (Y181) Blocking Peptide - References**

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