

# CASC3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7264b

# **Specification**

# CASC3 Antibody (C-term) - Product Information

Application WB, IHC-P,E
Primary Accession 015234

Other Accession <u>Q8K3X0</u>, <u>A5D7H5</u>, <u>NP 619601</u>, <u>Q8K3W3</u>

Reactivity Human

Predicted Bovine, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Antigen Region 206-236

# CASC3 Antibody (C-term) - Additional Information

#### **Gene ID 22794**

#### **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

This CASC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 206-236 amino acids of human CASC3.

## **Dilution**

WB~~1:1000 IHC-P~~1:10~50

#### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

CASC3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

# CASC3 Antibody (C-term) - Protein Information

#### Name CASC3



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

**Function** Required for pre-mRNA splicing as component of the spliceosome (PubMed:28502770, PubMed: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

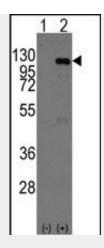
# CASC3 Antibody (C-term) - Protocols

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

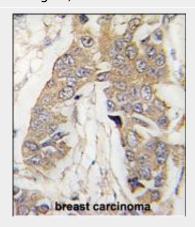
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# CASC3 Antibody (C-term) - Images





Western blot analysis of CASC3 (arrow) using rabbit polyclonal CASC3 Antibody (Cat.#AP7264b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CASC3 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with CASC3 Antibody (C-term) (Cat.#AP7264b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

# CASC3 Antibody (C-term) - Background

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

# CASC3 Antibody (C-term) - References

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