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CASC3 (h2): 293T Lysate: sc-116218

BACKGROUND

CASC3 (cancer susceptibility candidate 3), also known as BTZ or MLN51, is a 703 amino acid protein that localizes to both the nucleus and the cytoplasm and contains a coiled-coil domain. Expressed in a variety of tissues, CASC3 functions as a component of the exon junction complex (EJC), a multi-protein structure that exists on spliced mRNAs and plays a role in nonsense-mediated mRNA decay at exon-exon junctions. As a component of the EJC, CASC3 is thought to participate in mRNA modification and may also be involved in mRNA transport and ribonucleoprotein particle function. CASC3 is overexpressed in breast and gastric cancers, suggesting a role for CASC3 in tumor development and metastasis. The gene encoding CASC3 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

REFERENCES

- Tomasetto, C., et al. 1995. Identification of four novel human genes amplified and overexpressed in breast carcinoma and localized to the q11-q21.3 region of chromosome 17. *Genomics* 28: 367-376.
- Varis, A., et al. 2002. Targets of gene amplification and overexpression at 17q in gastric cancer. *Cancer Res.* 62: 2625-2629.
- Degot, S., et al. 2002. Metastatic lymph node 51, a novel nucleo-cytoplasmic protein overexpressed in breast cancer. *Oncogene* 21: 4422-4434.
- Macchi, P., et al. 2003. Barentsz, a new component of the Staufen-containing ribonucleoprotein particles in mammalian cells, interacts with Staufen in an RNA-dependent manner. *J. Neurosci.* 23: 5778-5788.
- Degot, S., et al. 2004. Association of the breast cancer protein MLN51 with the exon junction complex via its speckle localizer and RNA binding module. *J. Biol. Chem.* 279: 33702-33715.
- Online Mendelian Inheritance in Man, OMIM[™]. 2004. Johns Hopkins University, Baltimore, MD. MIM Number: 606504. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Ballut, L., et al. 2005. The exon junction core complex is locked onto RNA by inhibition of eIF4AIII ATPase activity. *Nat. Struct. Mol. Biol.* 12: 861-869.
- Shibuya, T., et al. 2006. Mutational analysis of human eIF4AIII identifies regions necessary for exon junction complex formation and nonsense-mediated mRNA decay. *RNA* 12: 360-374.
- Baguet, A., et al. 2007. The exon-junction-complex-component metastatic lymph node 51 functions in stress-granule assembly. *J. Cell Sci.* 120: 2774-2784.

CHROMOSOMAL LOCATION

Genetic locus: CASC3 (human) mapping to 17q21.1.

PRODUCT

CASC3 (h2): 293T Lysate represents a lysate of human CASC3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

CASC3 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive CASC3 antibodies. Recommended use: 10-20 µl per lane.

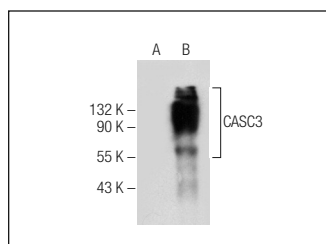
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

CASC3 (G-10): sc-376186 is recommended as a positive control antibody for Western Blot analysis of enhanced human CASC3 expression in CASC3 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



CASC3 (G-10): sc-376186. Western blot analysis of CASC3 expression in non-transfected: sc-117752 (A) and human CASC3 transfected: sc-116218 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.