

# CASC3 (H-190): sc-98359

## 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

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## CHROMOSOMAL LOCATION

Genetic locus: CASC3 (human) mapping to 17q21.1; Casc3 (mouse) mapping to 11 D.

## SOURCE

CASC3 (H-190) is a rabbit polyclonal antibody raised against amino acids 451-640 mapping near the C-terminus of CASC3 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

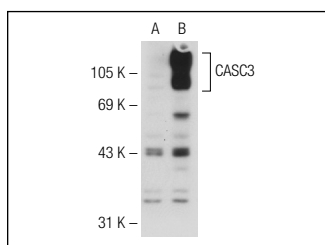
CASC3 (H-190) is recommended for detection of CASC3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CASC3 siRNA (h): sc-93943, CASC3 siRNA (m): sc-142016, CASC3 shRNA Plasmid (h): sc-93943-SH, CASC3 shRNA Plasmid (m): sc-142016-SH, CASC3 shRNA (h) Lentiviral Particles: sc-93943-V and CASC3 shRNA (m) Lentiviral Particles: sc-142016-V.

Molecular Weight of CASC3: 76 kDa.

Positive Controls: CASC3 (h2): 293T Lysate: sc-116218.

## DATA



CASC3 (H-190): sc-98359. 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 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **CASC3 (G-10): sc-376186**, our highly recommended monoclonal alternative to CASC3 (H-190).