

CASC5 (K-14): sc-242311

BACKGROUND

DSN1, also known as MIS13, is a 356 amino acid protein that is associated with the kinetochore and functions as a component of the MIS12 protein complex, a multi-protein structure that works to ensure proper kinetochore formation and spindle checkpoint activity. CASC5 (cancer susceptibility candidate 5), also known as D40 or KNL1, is a 2,342 amino acid protein that interacts with MIS12 and DSN1, functioning as a component of the MIS12 complex and playing an important role in proper chromosome segregation during mitosis. CASC5 exists as multiple alternatively spliced isoforms that are highly expressed in testis and are present at lower levels in thymus, colon, bone marrow, placenta and small intestine. Chromosomal aberrations involving the gene encoding CASC5 are associated with acute myeloblastic leukemia (AML), suggesting a role for mutated CASC5 in tumorigenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CASC5 (human) mapping to 15q15.1; Casc5 (mouse) mapping to 2 E5.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

SOURCE

CASC5 (K-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CASC5 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.

Blocking peptide available for competition studies, sc-242311 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CASC5 (K-14) is recommended for detection of CASC5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with CASC1, CASC3 or CASC4.

Suitable for use as control antibody for CASC5 siRNA (h): sc-90063, CASC5 siRNA (m): sc-142018, CASC5 shRNA Plasmid (h): sc-90063-SH, CASC5 shRNA Plasmid (m): sc-142018-SH, CASC5 shRNA (h) Lentiviral Particles: sc-90063-V and CASC5 shRNA (m) Lentiviral Particles: sc-142018-V.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

PROTOCOLS

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