

CASC1 (A-14): sc-136596

BACKGROUND

CASC1 (cancer susceptibility candidate 1), also known as LAS1 (lung adenoma susceptibility 1-like), is a 716 amino acid protein that exists as multiple alternatively spliced isoforms and may be involved in the pathogenesis of certain types of cancer. The gene encoding CASC1 maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and Trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CASC1 (human) mapping to 12p12.1; Casc1 (mouse) mapping to 6 G3.

SOURCE

CASC1 (A-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of CASC1 of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-136596 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CASC1 (A-14) is recommended for detection of CASC1 isoforms 1-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

CASC1 (A-14) is also recommended for detection of CASC1 isoforms 1-3 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for CASC1 siRNA (h): sc-96089, CASC1 siRNA (m): sc-142015, CASC1 shRNA Plasmid (h): sc-96089-SH, CASC1 shRNA Plasmid (m): sc-142015-SH, CASC1 shRNA (h) Lentiviral Particles: sc-96089-V and CASC1 shRNA (m) Lentiviral Particles: sc-142015-V.

Molecular Weight of CASC1: 83 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



CASC1 (A-14): sc-136596. Immunoperoxidase staining of formalin fixed, paraffin-embedded human skeletal muscle tissue showing cytoplasmic staining of myocytes.

STORAGE

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