CAPSL (K-14): sc-162636



The Power to Question

BACKGROUND

CAPSL (calcyphosine-like) is a 208 amino acid cytoplasmic protein that contains 4 EF-hand domains and is encoded by a gene that maps to human chromosome 5p13.2. Chromosome 5 contains 181 million base pairs and comprises nearly 6% of the human genome. Chromosome 5 is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5-associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CAPSL (human) mapping to 5p13.2; Capsl (mouse) mapping to 15 A1.

SOURCE

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

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-162636 P, (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CAPSL (K-14) is recommended for detection of CAPSL 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).

CAPSL (K-14) is also recommended for detection of CAPSL in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CAPSL siRNA (h): sc-91977, CAPSL siRNA (m): sc-142006, CAPSL shRNA Plasmid (h): sc-91977-SH, CAPSL shRNA Plasmid (m): sc-142006-SH, CAPSL shRNA (h) Lentiviral Particles: sc-91977-V and CAPSL shRNA (m) Lentiviral Particles: sc-142006-V.

Molecular Weight of CAPSL: 24 kDa.

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) 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.

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