

CAMSAP1L1 (N-15): sc-242306

BACKGROUND

CAMSAP1L1 (Calmodulin-regulated spectrin-associated protein 1-like protein 1), also known as Calmodulin-regulated spectrin-associated protein 2, is a 1,489 amino acid protein that contains one calponin-homology domain and one CKK domain, which serves to bind microtubules. There are three isoforms of CAMSAP1L1 that are produced as a result of alternative splicing events. The gene encoding CAMSAP1L1 maps to human chromosome 1, the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes lamin A. The MUTYH gene is located on chromosome 1 and is partially responsible for familial adenomatous polyposis. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1.

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CHROMOSOMAL LOCATION

Genetic locus: CAMSAP2 (human) mapping to 1q32.1; Camsap2 (mouse) mapping to 1 E4.

SOURCE

CAMSAP1L1 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of CAMSAP1L1 of human origin.

RESEARCH USE

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

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-242306 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CAMSAP1L1 (N-15) is recommended for detection of CAMSAP1L1 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 CAMSAP1.

CAMSAP1L1 (N-15) is also recommended for detection of CAMSAP1L1 in additional species, including avian.

Suitable for use as control antibody for CAMSAP1L1 siRNA (h): sc-78701, CAMSAP1L1 siRNA (m): sc-141997, CAMSAP1L1 shRNA Plasmid (h): sc-78701-SH, CAMSAP1L1 shRNA Plasmid (m): sc-141997-SH, CAMSAP1L1 shRNA (h) Lentiviral Particles: sc-78701-V and CAMSAP1L1 shRNA (m) Lentiviral Particles: sc-141997-V.

Molecular Weight of CAMSAP1L1: 168/165/167 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) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

PROTOCOLS

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