

CAMSAP1L1 (Y-15): sc-242307

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 (Y-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of CAMSAP1L1 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-242307 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CAMSAP1L1 (Y-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 (Y-15) is also recommended for detection of CAMSAP1L1 in additional species, including equine, canine, bovine and 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.

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.