

CAMSAP1 (S-20): sc-246050

BACKGROUND

CAMSAP1 (calmodulin-regulated spectrin-associated protein 1) is a 1,602 amino acid protein containing one CH (calponin-homology) domain and one CKK domain, which binds microtubules. There are three isoforms of CAMSAP1 that are produced as a result of alternative splicing events. The gene encoding CAMSAP1 maps to human chromosome 9, which consists of about 145 million bases and 4% of the human genome and encodes nearly 900 genes. Considered to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, is associated with the chromosome 9 gene encoding endoglin protein, ENG. Familial dysautonomia is also associated with chromosome 9 though through the gene IKBKAP. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

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CHROMOSOMAL LOCATION

Genetic locus: CAMSAP1 (human) mapping to 9q34.3; Camsap1 (mouse) mapping to 2 A3.

SOURCE

CAMSAP1 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CAMSAP1 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-246050 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CAMSAP1 (S-20) is recommended for detection of CAMSAP1 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 CAMSAP1L1.

CAMSAP1 (S-20) is also recommended for detection of CAMSAP1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CAMSAP1 siRNA (h): sc-92757, CAMSAP1 siRNA (m): sc-141996, CAMSAP1 shRNA Plasmid (h): sc-92757-SH, CAMSAP1 shRNA Plasmid (m): sc-141996-SH, CAMSAP1 shRNA (h) Lentiviral Particles: sc-92757-V and CAMSAP1 shRNA (m) Lentiviral Particles: sc-141996-V.

Molecular Weight of CAMSAP1: 178/147/179 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.