

CASKIN1 (S-17): sc-107181

BACKGROUND

CASK is a multi-domain scaffolding protein that is thought to be involved in signaling at neuronal synapses. CASKIN1 (CASK-interacting protein 1) is a 1,431 amino acid cytoplasmic protein that links CASK to downstream intracellular effectors. CASKIN1 contains six ANK repeats, two SAM (sterile α motif) domains and one SH3 domain. By binding the CaM kinase domain of CASK, CASKIN1 forms a ternary complex with CASK and a Veli protein, either 1, 2 or 3. This tripartite binds to the C-terminus of neuexin I, a neuronal cell surface protein involved in cell recognition and adhesion. X11 α , a CNS-specific protein that may be involved in the processing of the β -amyloid precursor protein, also binds the CASK and LIN7 complex and therefore competes with CASKIN1 for CASK binding.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CASKIN1 (human) mapping to 16p13.3; Caskin1 (mouse) mapping to 17 A3.3.

SOURCE

CASKIN1 (S-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CASKIN1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-107181 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CASKIN1 (S-17) is recommended for detection of CASKIN1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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 family member CASKIN2.

Suitable for use as control antibody for CASKIN1 siRNA (h): sc-93195, CASKIN1 siRNA (m): sc-142020, CASKIN1 shRNA Plasmid (h): sc-93195-SH, CASKIN1 shRNA Plasmid (m): sc-142020-SH, CASKIN1 shRNA (h) Lentiviral Particles: sc-93195-V and CASKIN1 shRNA (m) Lentiviral Particles: sc-142020-V.

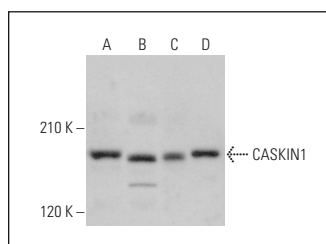
Molecular Weight of CASKIN1: 180 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, K-562 whole cell lysate: sc-2203 or MOLT-4 cell lysate: sc-2233.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



CASKIN1 (S-17): sc-107181. Western blot analysis of CASKIN1 expression in K-562 (A), HeLa (B), MOLT-4 (C) and PC-3 (D) whole cell lysates.

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.