advillin (A-19): sc-83083

BACKGROUND

Advillin, also known as AVIL, p92 or DOC6, is an 819 amino acid protein that localizes to both the cytoplasm and the cytoskeleton and contains one HP domain and 6 gelsolin-like repeats. Expressed at high levels in colon and small intestine and at lower levels in uterus, thymus, testis and prostate, advillin functions as a calcium-regulated Actin-binding protein that may be involved in the development of neuronal cells, specifically those that form ganglia. The gene encoding advillin maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflications, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and Trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: AVIL (human) mapping to 12q14.1; Avil (mouse) mapping to 10 D3.

SOURCE

advillin (A-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of advillin 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 IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

 Blocking peptide available for competition studies, sc-83083 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

advillin (A-19) is recommended for detection of advillin 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).

advillin (A-19) is also recommended for detection of advillin in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for advillin siRNA (h): sc-72458, advillin siRNA (m): sc-72459, advillin shRNA Plasmid (h): sc-72458-SH, advillin shRNA Plasmid (m): sc-72459-SH, advillin shRNA (h) Lentiviral Particles: sc-72458-V and advillin shRNA (m) Lentiviral Particles: sc-72459-V.

Molecular Weight of advillin: 92 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: 1:1000-1:5000), 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.

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.