

AHI1 (P-20): sc-70002

BACKGROUND

AHI1 (abelson helper integration site 1), also known as ORF1, AHI-1, JBTS3 or Joubertin, is a 1,196 amino acid signaling protein that is expressed in the brain, specifically in neurons that give rise to the crossing axons of the corticospinal tract and superior cerebellar peduncles. AHI1 contains seven WD repeats, an SH3 domain, and several SH3-binding sites and is critical for both cerebellar and cortical development. Mutations of AHI1 is associated with Joubert syndrome (JS), an autosomal recessive disorder characterized by hypotonia, ataxia, mental retardation, altered respiratory pattern, abnormal eye movements, and a brain malformation. Considered a novel oncogene, AHI1 is highly deregulated in chronic myeloid leukemia (CML). Three isoforms exist due to alternative splicing events.

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CHROMOSOMAL LOCATION

Genetic locus: AHI1 (human) mapping to 6q23.3; Ahi1 (mouse) mapping to 10 A3.

SOURCE

AHI1 (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of AHI1 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-70002 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

AHI1 (P-20) is recommended for detection of AHI1 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).

AHI1 (P-20) is also recommended for detection of AHI1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for AHI1 siRNA (h): sc-72465, AHI1 siRNA (m): sc-72466, AHI1 shRNA Plasmid (h): sc-72465-SH, AHI1 shRNA Plasmid (m): sc-72466-SH, AHI1 shRNA (h) Lentiviral Particles: sc-72465-V and AHI1 shRNA (m) Lentiviral Particles: sc-72466-V.

Molecular Weight of AHI1: 136 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.