

Hint1 (C-16): sc-107592

BACKGROUND

Hint1 (histidine triad nucleotide binding protein 1), also known as PRKCNH1 or PKC11, is a 126 amino acid protein that localizes to both the cytoplasm and the nucleus and contains one HIT (histidine triad) domain. Widely expressed and existing as a homodimer, Hint1 functions to hydrolyze adenosine 5'-monophosphoramidate substrates, such as AMP-N-alanine methyl ester, AMP-morpholidate and AMP- α -acetyl lysine methyl ester, and may also inhibit PKC function and influence apoptosis. Knockdown of Hint1 mRNA results in downregulation of p53 and Bax, suggesting that Hint1 is a haplo-insufficient tumor suppressor. Also, it is suspected that promoter hypermethylation of the gene encoding Hint1 may play a role in hepatocarcinogenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HINT1 (human) mapping to 5q23.3; Hint1 (mouse) mapping to 11 B1.3.

SOURCE

Hint1 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Hint1 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 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-107592 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Hint1 (C-16) is recommended for detection of Hint1 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 family members Hint2 or Hint3.

Hint1 (C-16) is also recommended for detection of Hint1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Hint1 siRNA (h): sc-92005, Hint1 siRNA (m): sc-145966, Hint1 shRNA Plasmid (h): sc-92005-SH, Hint1 shRNA Plasmid (m): sc-145966-SH, Hint1 shRNA (h) Lentiviral Particles: sc-92005-V and Hint1 shRNA (m) Lentiviral Particles: sc-145966-V.

Molecular Weight of Hint1: 14 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.

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.



Try **Hint1 (B-5): sc-271790** or **Hint1 (H-5): sc-365015**, our highly recommended monoclonal alternatives to Hint1 (C-16).