

# Hint1 (H-40): sc-68908

## BACKGROUND

Hint1 (histidine triad nucleotide binding protein 1), also known as PRKCNH1 or PKCI1, 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- $\alpha$ -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 (H-40) is a rabbit polyclonal antibody raised against amino acids 8-47 mapping near the N-terminus of Hint1 of human origin.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PRODUCT

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

## APPLICATIONS

Hint1 (H-40) 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), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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).

Hint1 (H-40) is also recommended for detection of Hint 1 in additional species, including equine, canine, bovine, porcine and avian.

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 goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://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 (H-40).