

ZNHIT6 (P-14): sc-165969

BACKGROUND

ZNHIT6 (zinc finger, HIT type 6), also known as BCD1 (box C/D snoRNA essential 1 homolog), is a 470 amino acid protein that contains one HIT-type zinc finger. The gene encoding ZNHIT6 localizes to chromosome 1. Chromosome 1 is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes Lamin A. The MUTYH gene is located on chromosome 1 and is partially responsible for familial adenomatous polyposis. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1. A breakpoint has been identified in 1q which disrupts the DISC1 gene and is linked to schizophrenia. Aberrations in chromosome 1 are found in a variety of cancers including head and neck cancer, malignant melanoma and multiple myeloma. The ZNHIT6 gene product has been provisionally designated ZNHIT6 pending further characterization.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNHIT6 (human) mapping to 1p22.3; Znhit6 (mouse) mapping to 3 H2.

SOURCE

ZNHIT6 (P-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZNHIT6 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-165969 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNHIT6 (P-14) is recommended for detection of ZNHIT6 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 other ZNHIT family members.

Suitable for use as control antibody for ZNHIT6 siRNA (h): sc-78588, ZNHIT6 siRNA (m): sc-155813, ZNHIT6 shRNA Plasmid (h): sc-78588-SH, ZNHIT6 shRNA Plasmid (m): sc-155813-SH, ZNHIT6 shRNA (h) Lentiviral Particles: sc-78588-V and ZNHIT6 shRNA (m) Lentiviral Particles: sc-155813-V.

Molecular Weight (predicted) of ZNHIT6: 54 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or HeLa whole cell lysate: sc-2200.

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.