ZNHIT1 (E-18): sc-244822

BACKGROUND
ZNHIT1 (zinc finger, HIT-type containing 1), also known as CG11 (cyclin-G1-binding protein 1), p18 hamlet or ZNF4A1 (zinc-finger protein subfamily 4A member 1), is a 154 amino acid protein that plays a role in the induction of p53-mediated apoptosis. A member of the ZNHIT1 family, ZNHIT1 contains one HIT-type zinc finger and interacts with p38. ZNHIT1 undergoes post-translational phosphorylation and is encoded by a gene that maps to human chromosome 7, which houses over 1,000 genes and comprises nearly 5% of the human genome. Chromosome 7 has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: ZNHIT1 (human) mapping to 7q22.1; Znhit1 (mouse) mapping to 5 G2.

SOURCE
ZNHIT1 (E-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ZNHIT1 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-244822 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS
ZNHIT1 (E-18) is recommended for detection of ZNHIT1 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 ZNHIT2, ZNHIT3 or ZNHIT6.

ZNHIT1 (E-18) is also recommended for detection of ZNHIT1 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for ZNHIT1 siRNA (h): sc-89847, ZNHIT1 siRNA (m): sc-155809, ZNHIT1 shRNA Plasmid (h): sc-88947-SH, ZNHIT1 shRNA Plasmid (m): sc-155809-SH, ZNHIT1 shRNA (h) Lentiviral Particles: sc-88947-V and ZNHIT1 shRNA (m) Lentiviral Particles: sc-155809-V.

Molecular Weight of ZNHIT1: 18 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or Hep G2 cell lysate: sc-2227.

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.

DATA

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