

ZC3H7A (K-12): sc-244701

BACKGROUND

The zinc finger CCCH domain-containing protein 7A (ZC3H7A), also known as ZC3H7, HSPC055 or ZC3HDC7, is a 971 amino acid protein that contains a C3H1-type zinc finger domain, 3 C3H1-type zinc fingers and 3 TPR repeats. Belonging to the ZC3H12 family, ZC3H7A localizes to the nucleus. Existing as two alternatively spliced isoforms, ZC3H7A is encoded by a gene located on human chromosome 16p13.13. Chromosome 16 makes up nearly 3% of human cellular DNA and is associated with a variety of genetic disorders. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing mal-function with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, though through the CREBBP gene which encodes a critical CREB binding protein. Signs of Rubinstein-Taybi include mental retardation and predisposition to tumor growth and white blood cell neoplasias. Crohn's disease is a gastrointestinal inflammatory condition associated with chromosome 16 through the NOD2 gene.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Zc3h7a (mouse) mapping to 16 A1.

SOURCE

ZC3H7A (K-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of ZC3H7A of mouse 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-244701 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZC3H7A (K-12) is recommended for detection of ZC3H7A of mouse and rat 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 ZC3H family members.

Suitable for use as control antibody for ZC3H7A siRNA (m): sc-155468, ZC3H7A shRNA Plasmid (m): sc-155468-SH and ZC3H7A shRNA (m) Lentiviral Particles: sc-155468-V.

Molecular Weight of ZC3H7A isoforms: 111/20 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.