SANTA CRUZ BIOTECHNOLOGY, INC.

Hinderin (N-20): sc-84847

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Hinderin, also known as KIAA1328, is a 577 amino acid protein that exists as 4 isoforms produced by alternative splicing. In human tissues, Hinderin is ubiquitously expressed. Hinderin has five domains, including coiled-coil motifs that bind to SMC3 which may affect the ability of SMC3 to aid in the formation of multimeric protein complexes. The gene encoding Hinderin maps to human chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas. Deletions affecting human chromosome location 18q12.2 may cause mild dysmorphic features, mental retardation or behavior abnormalities.

REFERENCES

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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 or our catalog for detailed protocols and support products.

CHROMOSOMAL LOCATION

Genetic locus: KIAA1328 (human) mapping to 18q12.2.

SOURCE

Hinderin (N-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of Hinderin of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84847 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Hinderin (N-20) is recommended for detection of Hinderin of 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).

Hinderin (N-20) is also recommended for detection of Hinderin in additional species, including equine.

Suitable for use as control antibody for Hinderin siRNA (h): sc-75254, Hinderin shRNA Plasmid (h): sc-75254-SH and Hinderin shRNA (h) Lentiviral Particles: sc-75254-V.

Molecular Weight of Hinderin: 65 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™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 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™ Mounting Medium: sc-24941.

RESEARCH USE

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