# CNIH3 (P-13): sc-164073



The Boures to Overtion

# **BACKGROUND**

CNIH3 (cornichon homolog 3) is a 160 amino acid multi-pass membrane protein that belongs to the cornichon family and is encoded by a gene located on human 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. When defective, the LMNA gene product can build up in the nucleus and cause characteristic nuclear blebs. The mechanism of rapidly enhanced aging is unclear and is a topic of continuing exploration. 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.

# **REFERENCES**

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# **RESEARCH USE**

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

#### **CHROMOSOMAL LOCATION**

Genetic locus: CNIH3 (human) mapping to 1q42.12; Cnih3 (mouse) mapping to 1 H4.

# **SOURCE**

CNIH3 (P-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CNIH3 of human origin.

#### **PRODUCT**

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

Blocking peptide available for competition studies, sc-164073 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **APPLICATIONS**

CNIH3 (P-13) is recommended for detection of CNIH3 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 CNIH2 or CNIH4.

CNIH3 (P-13) is also recommended for detection of CNIH3 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for CNIH3 siRNA (h): sc-78610, CNIH3 siRNA (m): sc-142431, CNIH3 shRNA Plasmid (h): sc-78610-SH, CNIH3 shRNA Plasmid (m): sc-142431-SH, CNIH3 shRNA (h) Lentiviral Particles: sc-78610-V and CNIH3 shRNA (m) Lentiviral Particles: sc-142431-V.

Molecular Weight of CNIH3: 19 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.

# **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.