# CNIH4 (Q-14): sc-81857



#### **BACKGROUND**

CNIH4 (cornichon homolog 4), also known as HSPC163, is a 139 amino acid multi-pass membrane protein that is expressed as two isoforms and is encoded by a gene that is located on 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. 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.

## **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 for detailed protocols and support products.

#### **CHROMOSOMAL LOCATION**

Genetic locus: CNIH4 (human) mapping to 1q42.11.

#### **SOURCE**

CNIH4 (Q-14) is a mouse monoclonal antibody raised against recombinant CNIH4 of human origin.

#### **PRODUCT**

Each vial contains 100  $\mu g$   $lgG_{2a}$  kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

#### **APPLICATIONS**

CNIH4 (Q-14) is recommended for detection of CNIH4 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CNIH4 siRNA (h): sc-78590, CNIH4 shRNA Plasmid (h): sc-78590-SH and CNIH4 shRNA (h) Lentiviral Particles: sc-78590-V.

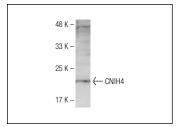
Molecular Weight of CNIH4: 16 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

#### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

## **DATA**



CNIH4 (Q-14): sc-81857. Western blot analysis of CNIH4 expression in A-431 whole cell lysate.

#### **RESEARCH USE**

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