SANTA CRUZ BIOTECHNOLOGY, INC.

UNC5H3 (H-70): sc-135077

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The UNC5H family of proteins act as transmembrane receptors for netrin-1 and play a crucial role in axon guidance and migration of neural cells. Additionally, UNC5H receptors induce apoptosis when cleaved by a caspase, producing an intracellular fragment containing a death domain. This activity is blocked by the binding of netrin-1. In the absence of netrin-1, UNC5H receptors act as tumor suppressors by inhibiting anchorage-independent growth and invasion, but mutation of these receptors provides a potential mechanism for tumorigenicity. The expression of UNC5H receptors is downregulated in multiple cancers, including colorectal, breast, ovary, uterus, stomach, lung and kidney cancers. UNC5H3, also known as UNC5C, plays an important role in the development of spinal accessory motor neurons. It is also involved in mediating the repulsive action for netrin-1 and it serves as a stop signal for migratory cells.

CHROMOSOMAL LOCATION

Genetic locus: UNC5C (human) mapping to 4q22.3; Unc5c (mouse) mapping to 3 H1.

SOURCE

UNC5H3 (H-70) is a rabbit polyclonal antibody raised against amino acids 481-550 mapping within an internal region of UNC5H3 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

UNC5H3 (H-70) is recommended for detection of UNC5H3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

UNC5H3 (H-70) is also recommended for detection of UNC5H3 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for UNC5H3 siRNA (h): sc-72284, UNC5H3 siRNA (m): sc-72285, UNC5H3 shRNA Plasmid (h): sc-72284-SH, UNC5H3 shRNA Plasmid (m): sc-72285-SH, UNC5H3 shRNA (h) Lentiviral Particles: sc-72284-V and UNC5H3 shRNA (m) Lentiviral Particles: sc-72285-V.

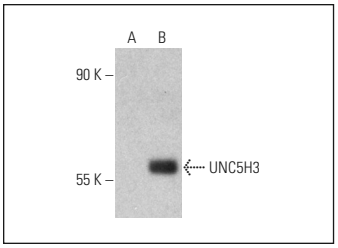
Molecular Weight of UNC5H3: 130 kDa.

Positive Controls: UNC5C transfected CHO whole cell lysate.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



UNC5H3 (H-70): sc-135077. Western blot analysis of UNC5H3 expression in non-transfected CHO (**A**) and human UNC5C transfected CHO (**B**) whole cell lysates.

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.

MONOS Satisfaction Guaranteed

Try **UNC5H3 (F-4): sc-515678** or **UNC5H3 (Zg06): sc-80422**, our highly recommended monoclonal alternatives to UNC5H3 (H-70).