SANTA CRUZ BIOTECHNOLOGY, INC.

UNC5H4 (H-57): sc-135262

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, when cleaved by a caspase to produce an intracellular fragment containing a death domain,UNC5H receptors induce apoptosis. 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 down-regulated in multiple carcinomas, including colorectal, breast, ovary, uterus, stomach, lung and kidney cancers. UNC5H4, also known as UNC5D (unc-5 homolog D), is single-pass type I membrane protein that is a member of the UNC5H netrin receptor family. Two isoforms of UNC5H4 exist due to alternative splicing events.

CHROMOSOMAL LOCATION

Genetic locus: UNC5D (human) mapping to 8p12; Unc5d (mouse) mapping to 8 A2.

SOURCE

UNC5H4 (H-57) is a rabbit polyclonal antibody raised against amino acids 450-506 mapping within an internal region of UNC5H4 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

UNC5H4 (H-57) is recommended for detection of Netrin receptor Unc-5 homolog D 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).

UNC5H4 (H-57) is also recommended for detection of Netrin receptor Unc-5 homolog D in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for UNC5H4 siRNA (h): sc-63187, UNC5H4 siRNA (m): sc-63188, UNC5H4 shRNA Plasmid (h): sc-63187-SH, UNC5H4 shRNA Plasmid (m): sc-63188-SH, UNC5H4 shRNA (h) Lentiviral Particles: sc-63187-V and UNC5H4 shRNA (m) Lentiviral Particles: sc-63188-V.

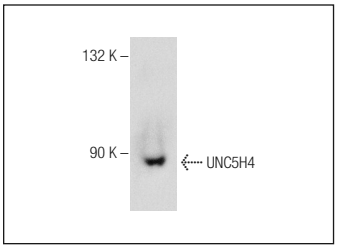
Molecular Weight of UNC5H4: 106 kDa.

Positive Controls: mouse brain extract: sc-2253.

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



UNC5H4 (H-57): sc-135262. Western blot analysis of UNC5H4 expression in mouse brain tissue extract.

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.