

# UNC5H2 (H-43): sc-98865

## 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. In fact, UNC5H receptors express widely in cells that migrate, where they bind the G protein  $G_{\alpha i-2}$  to inhibit G protein signaling. Additionally, UNC5H receptors induce apoptosis when cleaved by a caspase, producing an intracellular fragment containing a death domain, but this activity is blocked by the binding of netrin-1. The expression of UNC5H receptors is downregulated in multiple cancers, including colorectal, breast, ovary, uterus, stomach, lung and kidney cancers. Hence, 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. UNC5H2, also designated UNC-5 homolog B or p53-regulated receptor for death and life protein 1 (p53RDL1) is highly expressed in brain with lower levels of expression observed in developing lung, cartilage, kidney and hematopoietic and immune tissues.

## CHROMOSOMAL LOCATION

Genetic locus: UNC5B (human) mapping to 10q22.1; Unc5b (mouse) mapping to 10 B4.

## SOURCE

UNC5H2 (H-43) is a rabbit polyclonal antibody raised against amino acids 624-665 mapping within an internal region of UNC5H2 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g 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

UNC5H2 (H-43) is recommended for detection of UNC5H2 of mouse, rat and 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)], 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).

UNC5H2 (H-43) is also recommended for detection of UNC5H2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for UNC5H2 siRNA (h): sc-61846, UNC5H2 siRNA (m): sc-61847, UNC5H2 shRNA Plasmid (h): sc-61846-SH, UNC5H2 shRNA Plasmid (m): sc-61847-SH, UNC5H2 shRNA (h) Lentiviral Particles: sc-61846-V and UNC5H2 shRNA (m) Lentiviral Particles: sc-61847-V.

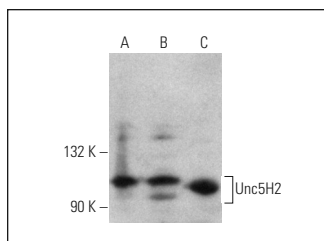
Molecular Weight of UNC5H2: 100 kDa.

Positive Controls: HEK293T whole cell lysate: sc-45137, Jurkat whole cell lysate: sc-2204 or CCRF-CEM cell lysate: sc-2225.

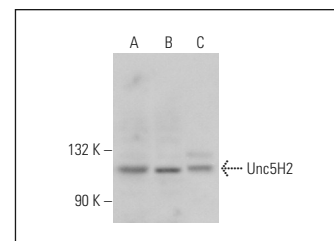
## RECOMMENDED SECONDARY REAGENTS

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



Unc5H2 (H-43): sc-98865. Western blot analysis of Unc5H2 expression in SH-SY5Y (A) and Jurkat (B) whole cell lysates and mouse brain tissue extract (C).



Unc5H2 (H-43): sc-98865. Western blot analysis of Unc5H2 expression in CCRF-CEM (A), Jurkat (B) and HEK293T (C) whole cell lysates.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **UNC5H2 (1A9): sc-293240**, our highly recommended monoclonal alternative to Unc5H2 (H-43).