TRC8 (S-17): sc-67885



The Power to Question

BACKGROUND

TRC8 (translocation in renal carcinoma on chromosome 8), also known as RNF139 (ring finger protein 139), RCA1 or HRCA1 (hereditary renal cancer associated 1), is a multi-pass membrane protein that is predominantly expressed in testis, adrenal gland and placenta and is expressed at lower levels in liver, skeletal muscle, pancreas, kidney, brain, heart and lung. Localizing to the endoplasmic reticulum (ER), TRC8 contains ten transmembrane segments, a sterol-sensing domain and one RING-type zinc finger and may function as a ubiquitin ligase and signaling receptor. TRC8 physically interacts with VHL (Von Hippel Lindau disease tumor suppressor), and the inhibition of either of these proteins leads to the same ventral midline defect. Disruption of the TRC8 gene, caused by the 3;8 chromosomal translocation, is associated with hereditary renal cell carcinoma (RCC), suggesting that TRC8 is a potential tumor suppressor for RCC. Further supporting its role as a tumor suppressor, TRC8 mediates the induction of $\rm G_2/M$ phase arrest, increased apoptosis and decreased DNA synthesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RNF139 (human) mapping to 8q24.13; Rnf139 (mouse) mapping to 15 D1.

SOURCE

TRC8 (S-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TRC8 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-67885 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TRC8 (S-17) is recommended for detection of translocation in renal carcinoma on chromosome 8 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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).

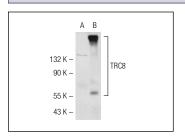
TRC8 (S-17) is also recommended for detection of translocation in renal carcinoma on chromosome 8 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TRC8 siRNA (h): sc-63155, TRC8 siRNA (m): sc-63156, TRC8 shRNA Plasmid (h): sc-63155-SH, TRC8 shRNA Plasmid (m): sc-63156-SH, TRC8 shRNA (h) Lentiviral Particles: sc-63155-V and TRC8 shRNA (m) Lentiviral Particles: sc-63156-V.

Molecular Weight of TRC8: 60 kDa.

Positive Controls: TRC8 (h): 293T Lysate: sc-116907 or Hep G2 cell lysate: sc-2227.

DATA



TRC8 (S-17): sc-67885. Western blot analysis of TRC8 expression in non-transfected: sc-117752 (**A**) and human TRC8 transfected: sc-116907 (**B**) 293T whole cell Ivsates.

STORAGE

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

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.



Try **TRC8 (H-9):** sc-390347 or **TRC8 (E-12):** sc-376358, our highly recommended monoclonal alternatives to TRC8 (S-17).

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