BACKGROUND

The RING-type zinc finger motif is present in a number of viral and eukaryotic proteins and is made of a conserved cysteine-rich domain that is able to bind two zinc atoms. Proteins that contain this conserved domain are generally involved in the ubiquitination pathway of protein degradation. RNF146 (RING finger protein 146), also known as Dactylidin, is a 359 amino acid protein that contains one RING-type zinc finger and one WWE domain. Via its RING-type zinc finger, RNF146 may play a role in transcriptional regulation and protein degradation events. Defects in the gene encoding RNF146 are associated with Alzheimer's disease (AD) and may lead to a higher risk of breast cancer. Two isoforms of RNF146 exist due to alternative splicing events.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: RNF146 (human) mapping to 6q22.33; Rnf146 (mouse) mapping to 10 A4.

SOURCE

RNF146 (H-23) is a purified rabbit polyclonal antibody raised against RNF146 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

RNF146 (H-23) is recommended for detection of RNF146 of mouse 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]) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for RNF146 siRNA (h): sc-95285, RNF146 siRNA (m): sc-153015, RNF146 shRNA Plasmid (h): sc-95285-SH, RNF146 shRNA Plasmid (m): sc-153015-SH, RNF146 shRNA (h) Lentiviral Particles: sc-95285-V and RNF146 shRNA (m) Lentiviral Particles: sc-153015-V.

Molecular Weight of RNF146: 39 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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).

DATA

Molecular Weight of RNF146: 39 kDa.

STORE

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 or our catalog for detailed protocols and support products.

RESEARCH USE

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