

ANKRD13B (S-13): sc-163685

BACKGROUND

Ankyrins are membrane adaptor molecules that play important roles in coupling integral membrane proteins to the spectrin-based cytoskeleton network. Mutations of ankyrin genes can lead to severe genetic diseases, such as fatal cardiac arrhythmias and hereditary spherocytosis. ANKRD13B (ankyrin repeat domain 13B) is a 626 amino acid protein that contains 2 ANK repeats and 3 ubiquitin-interacting motif (UIM) repeats. Conserved in canine, bovine, mouse and rat, ANKRD13B exists as two alternatively spliced isoforms. The gene that encodes ANKRD13B maps to human chromosome 17, which makes up over 2.5% of the human genome, with about 81 million bases encoding over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. BRCA1 is recognized as a genetic determinant of early onset breast cancer. Chromosome 17 is also linked to neurofibromatosis, dysregulated Schwann cell growth, Alexander disease, Birt-Hogg-Dube syndrome and Canavan disease.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ANKRD13B (human) mapping to 17q11.2; Ankrd13b (mouse) mapping to 11 B5.

SOURCE

ANKRD13B (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ANKRD13B 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.

Blocking peptide available for competition studies, sc-163685 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ANKRD13B (S-13) is recommended for detection of ANKRD13B of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other ANKRD family members.

Suitable for use as control antibody for ANKRD13B siRNA (h): sc-93649, ANKRD13B siRNA (m): sc-141076, ANKRD13B shRNA Plasmid (h): sc-93649-SH, ANKRD13B shRNA Plasmid (m): sc-141076-SH, ANKRD13B shRNA (h) Lentiviral Particles: sc-93649-V and ANKRD13B shRNA (m) Lentiviral Particles: sc-141076-V.

Molecular Weight of ANKRD13B: 70 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.