

ANKFY1 (Q-13): sc-160137

BACKGROUND

ANKFY1 (ankyrin repeat and FYVE domain containing 1), also known as ankyrin repeats hooked to a zinc finger motif, ANKHZN or ZFYVE14, is a 1,169 amino acid peripheral membrane protein that also localizes to endosomal membranes and cytoplasm. Ubiquitously expressed, ANKFY1 is found at highest levels in adult brain and is implicated in vesicle and protein transport. ANKFY1 exists as two alternatively spliced isoforms, contains 21 ANK repeats, one BTB (POZ) domain and a single FYVE-type zinc finger. The gene encoding ANKFY1 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ANKFY1 (human) mapping to 17p13.2; Ankfy1 (mouse) mapping to 11 B4.

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.

SOURCE

ANKFY1 (Q-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ANKFY1 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-160137 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ANKFY1 (Q-13) is recommended for detection of ANKFY1 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).

Suitable for use as control antibody for ANKFY1 siRNA (h): sc-93654, ANKFY1 siRNA (m): sc-141066, ANKFY1 shRNA Plasmid (h): sc-93654-SH, ANKFY1 shRNA Plasmid (m): sc-141066-SH, ANKFY1 shRNA (h) Lentiviral Particles: sc-93654-V and ANKFY1 shRNA (m) Lentiviral Particles: sc-141066-V.

Molecular Weight of ANKFY1: 130 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.