SANTA CRUZ BIOTECHNOLOGY, INC.

ANKRD13D (P-16): sc-138107

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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 lead to severe genetic diseases such as fatal cardiac arrhythmias and hereditary spherocytosis. ANKRD13D (Ankyrin repeat domain-containing protein 13D) is a 518 amino acid protein that contains three UIM (ubiquitin-interacting motif) repeats. ANKRD13D is expressed as two isoforms produced by alternative splicing events. The gene that encodes ANKRD13 maps to human chromosome 11, which makes up around 4% of human genomic DNA. The chromosome 11 encoded Atm gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. Atm mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders Sickle cell anemia and β thalassemia are caused by HBB gene mutations. Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ANKRD13D (human) mapping to 11q13.2; Ankrd13d (mouse) mapping to 19 A.

SOURCE

ANKRD13D (P-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ANKRD13D of human origin.

RESEARCH USE

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

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-138107 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ANKRD13D (P-16) is recommended for detection of ANKRD13D 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 ANKRD13 family members.

ANKRD13D (P-16) is also recommended for detection of ANKRD13D in additional species, including equine, canine and porcine.

Suitable for use as control antibody for ANKRD13D siRNA (h): sc-96992, ANKRD13D siRNA (m): sc-141078, ANKRD13D shRNA Plasmid (h): sc-96992-SH, ANKRD13D shRNA Plasmid (m): sc-141078-SH, ANKRD13D shRNA (h) Lentiviral Particles: sc-96992-V and ANKRD13D shRNA (m) Lentiviral Particles: sc-141078-V.

Molecular Weight of ANKRD13D: 58 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.

PROTOCOLS

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