SANTA CRUZ BIOTECHNOLOGY, INC.

ANKRD29 (S-19): sc-84693

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. ANKRD29 (ankyrin repeat domain-containing protein 29) is a 301 amino acid protein that contains 8 ankyrin repeats and exists as three alternatively spliced isoforms. The gene encoding human ANKRD29 maps to chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

REFERENCES

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4. Grosso, S., et al. 2005. Chromosome 18 aberrations and epilepsy: a review. Am. J. Med. Genet. A 134: 88-94.
5. Aurizi, C., et al. 2007. Heterogeneity of mutations in the ferrochelatase gene in Italian patients with erythropoietic protoporphyria. Mol. Genet. Metab. 90: 402-407.
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CHROMOSOMAL LOCATION

Genetic locus: ANKRD29 (human) mapping to 18q11.2; Ankrd29 (mouse) mapping to 18 A1.

SOURCE

ANKRD29 (S-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of ANKRD29 of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-84693 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ANKRD29 (S-19) is recommended for detection of ANKRD29 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.

ANKRD29 (S-19) is also recommended for detection of ANKRD29 in additional species, including equine, canine, bovine and porcine.

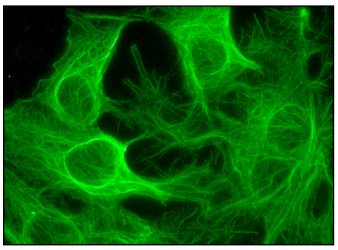
Suitable for use as control antibody for ANKRD29 siRNA (h): sc-72500, ANKRD29 siRNA (m): sc-141089, ANKRD29 shRNA Plasmid (h): sc-72500-SH, ANKRD29 shRNA Plasmid (m): sc-141089-SH, ANKRD29 shRNA (h) Lentiviral Particles: sc-72500-V and ANKRD29 shRNA (m) Lentiviral Particles: sc-141089-V.

Molecular Weight of ANKRD29: 32 kDa.

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) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ANKRD29 (S-19): sc-84693. Immunofluorescence staining of formalin-fixed Hep G2 cells showing cytoskeletal localization.

RESEARCH USE

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