SANTA CRUZ BIOTECHNOLOGY, INC.

ANKRD52 (S-18): sc-249937

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. ANKRD52 (ankyrin repeat domain 52), also known as PP6-ARS-C (serine/threonine-protein phosphatase 6 regulatory ankyrin repeat subunit C), is a 1,076 amino acid phosphoprotein that contains 28 ANK repeats. Encoded by a gene that maps to human chromosome 12q13.2, ANKRD52 is conserved in chimpanzee, canine, bovine, mouse, rat, chicken and zebrafish. ANKRD52 is a putative regulatory subunit of protein phospatase 6 (PP6), a holoenzyme that may be a heterotrimeric complex formed by a catalytic subunit, a SKAP55 domain-containing subunit (PP6R) and an ankyrin repeat-domain containing regulatory subunit (ARS). ANKRD52 may also be involved in phosphoprotein substrate recognition.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ANKRD52 (human) mapping to 12q13.2; Ankrd52 (mouse) mapping to 10 D3.

SOURCE

ANKRD52 (S-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of ANKRD52 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-249937 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ANKRD52 (S-18) is recommended for detection of ANKRD52 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 ANKRD family members.

ANKRD52 (S-18) is also recommended for detection of ANKRD52 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ANKRD52 siRNA (h): sc-106806, ANKRD52 siRNA (m): sc-141110, ANKRD52 shRNA Plasmid (h): sc-106806-SH, ANKRD52 shRNA Plasmid (m): sc-141110-SH, ANKRD52 shRNA (h) Lentiviral Particles: sc-106806-V and ANKRD52 shRNA (m) Lentiviral Particles: sc-141110-V.

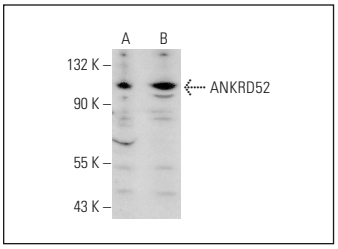
Molecular Weight of ANKRD52: 115 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or K-562 whole cell lysate: sc-2203.

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.

DATA



ANKRD52 (S-18): sc-249937. Western blot analysis of ANKRD52 expression in Jurkat (**A**) and K-562 (**B**) whole cell lysates.

STORAGE

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