

# ANKRD52 (C-18): sc-249938

## 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 phosphatase 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 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at 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-249938 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ANKRD52 (C-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 (C-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.

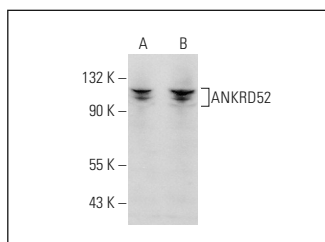
Molecular Weight of ANKRD52: 115 kDa.

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 (C-18): sc-249938. 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.