

# ANKRD54 (K-14): sc-86287

## BACKGROUND

ANKRD54 (ankyrin repeat domain 54) is a 300 amino acid protein that contains 4 ankyrin repeats and is expressed as 2 alternatively spliced isoforms. The gene encoding human ANKRD54 maps to chromosome 22, which houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, neurofibromatosis type 2, autism and schizophrenia. Additionally, translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia chromosome and the subsequent production of the novel fusion protein Bcr-Abl, a potent cell proliferation activator found in several types of leukemias.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ANKRD54 (human) mapping to 22q13.1; Ankrd54 (mouse) mapping to 15 E1.

## SOURCE

ANKRD54 (K-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ANKRD54 of human origin.

## 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-86287 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ANKRD54 (K-14) is recommended for detection of ANKRD54 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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.

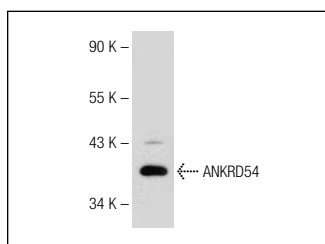
ANKRD54 (K-14) is also recommended for detection of ANKRD54 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for ANKRD54 siRNA (h): sc-72502, ANKRD54 siRNA (m): sc-141112, ANKRD54 shRNA Plasmid (h): sc-72502-SH, ANKRD54 shRNA Plasmid (m): sc-141112-SH, ANKRD54 shRNA (h) Lentiviral Particles: sc-72502-V and ANKRD54 shRNA (m) Lentiviral Particles: sc-141112-V.

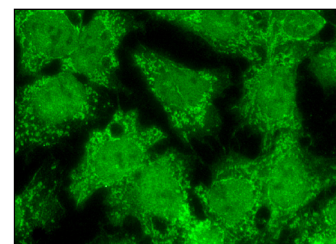
Molecular Weight of ANKRD54: 33 kDa.

Positive Controls: mouse kidney extract: sc-2255.

## DATA



ANKRD54 (K-14): sc-86287. Western blot analysis of ANKRD54 expression in mouse kidney tissue extract.



ANKRD54 (K-14): sc-86287. Immunofluorescence staining of formalin-fixed Hep G2 cells showing nuclear and cytoplasmic localization.

## 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.