

# ANKRD5 (N-16): sc-85269

## BACKGROUND

ANKRD5 (ankyrin repeat domain 5) is a 776 amino acid protein that contains one calcium-binding EF-hand domain and 8 ankyrin repeats. The gene encoding ANKRD5 maps to chromosome 20. Comprising approximately 2% of the human genome, chromosome 20 contains nearly 63 million bases that encode over 600 genes, some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome. Additionally, chromosome 20 contains a region with numerous genes which are thought important for seminal production and may be potential targets for male contraception.

## REFERENCES

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3. Masullo, C. and Macchi, G. 2001. Does PRNP gene control the clinical and pathological phenotype of human spongiform transmissible encephalopathies? *Clin. Neuropathol.* 20: 19-25.
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6. Elghezal, H., Hannachi, H., Mougou, S., Kammoun, H., Triki, C. and Saad, A. 2007. Ring chromosome 20 syndrome without deletions of the subtelomeric and CHRNA4-KCNQ2 genes loci. *Eur. J. Med. Genet.* 50: 441-445.
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## CHROMOSOMAL LOCATION

Genetic locus: ANKRD5 (human) mapping to 20p12.2; Ankrd5 (mouse) mapping to 2 F3.

## SOURCE

ANKRD5 (N-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of ANKRD5 of human origin.

## 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-85269 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

ANKRD5 (N-16) is recommended for detection of ANKRD5 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.

ANKRD5 (N-16) is also recommended for detection of ANKRD5 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for ANKRD5 siRNA (h): sc-72501, ANKRD5 siRNA (m): sc-141108, ANKRD5 shRNA Plasmid (h): sc-72501-SH, ANKRD5 shRNA Plasmid (m): sc-141108-SH, ANKRD5 shRNA (h) Lentiviral Particles: sc-72501-V and ANKRD5 shRNA (m) Lentiviral Particles: sc-141108-V.

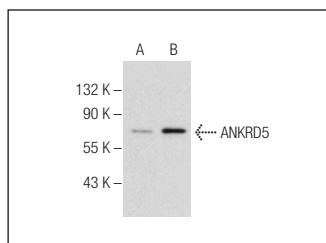
Molecular Weight of ANKRD5: 87 kDa.

Positive Controls: ANKRD5 (h2): 293T Lysate: sc-173747.

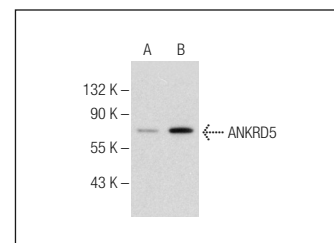
## RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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



ANKRD5 (N-16): sc-85269. Western blot analysis of ANKRD5 expression in non-transfected: sc-117752 (A) and human ANKRD5 transfected: sc-173747 (B) 293T whole cell lysates.



ANKRD5 (N-16): sc-85269. Western blot analysis of ANKRD5 expression in non-transfected: sc-117752 (A) and human ANKRD5 transfected: sc-173670 (B) 293T 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.

## PROTOCOLS

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