ANKRD5 (E-14): sc-85268



The Power to Question

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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CHROMOSOMAL LOCATION

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

SOURCE

ANKRD5 (E-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ANKRD5 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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-85268 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ANKRD5 (E-14) 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 μ g per 100-500 μ g 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 (E-14) is also recommended for detection of ANKRD5 in additional species, including equine, canine and porcine.

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.

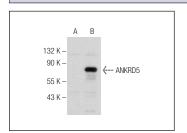
Molecular Weight of ANKRD5: 87 kDa.

Positive Controls: ANKRD5 (h): 293T Lysate: sc-173670.

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 (E-14): sc-85268. Western blot analysis of ANKRD5 expression in non-transfected: sc-117752 (A) and human ANKRD5 transfected: sc-173670 (B) 293T whole cell Ivsates.

RESEARCH USE

For research use only, not for use in diagnostic procedures