# ANKRD50 (D-13): sc-138119



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. ANKRD50 (ankyrin repeat domain 50) is a 1,429 amino acid phosphoprotein that contains 19 ANK repeats. Conserved in chimpanzee, canine, bovine, mouse, rat, chicken, zebrafish, fruit fly and mosquito, ANKRD50 is encoded by a gene that maps to human chromosome 4q28.1. Chromosome 4 represents approximately 6% of the human genome and contains nearly 900 genes. Notably, the Huntingtin gene, which encodes an expanded glutamine tract in cases of Huntington's disease, is located on chromosome 4. FGFR-3 is also encoded by a gene that maps to human chromosome 4 and has been associated with thanatophoric dwarfism, achondroplasia, Muenke syndrome and bladder cancer. Chromosome 4 is also linked to Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease.

## **REFERENCES**

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- Ruiz-Perez, V.L., et al. 2007. Evc is a positive mediator of lhh-regulated bone growth that localises at the base of chondrocyte cilia. Development 134: 2903-2912.
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## **CHROMOSOMAL LOCATION**

Genetic locus: ANKRD50 (human) mapping to 4q28.1; Ankrd50 (mouse) mapping to 3 B.

## **SOURCE**

ANKRD50 (D-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ANKRD50 of human origin.

## PRODUCT

Each vial contains 100  $\mu g$  IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138119 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

ANKRD50 (D-13) is recommended for detection of ANKRD50 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other ANKRD family members.

ANKRD50 (D-13) is also recommended for detection of ANKRD50 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for ANKRD50 siRNA (h): sc-88918, ANKRD50 siRNA (m): sc-141109, ANKRD50 shRNA Plasmid (h): sc-88918-SH, ANKRD50 shRNA Plasmid (m): sc-141109-SH, ANKRD50 shRNA (h) Lentiviral Particles: sc-88918-V and ANKRD50 shRNA (m) Lentiviral Particles: sc-141109-V.

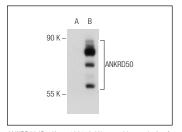
Molecular Weight of ANKRD50: 156 kDa.

Positive Controls: ANKRD50 (h): 293T Lysate: sc-113973.

#### **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



ANKRD50 (D-13): sc-138119. Western blot analysis of ANKRD50 expression in non-transfected: sc-117752 (A) and human ANKRD50 transfected: sc-113973 (B) 293T whole cell lysates.

### **STORAGE**

Store at  $4^{\circ}$  C, \*\*D0 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.