



# ANKRD17 (Q-14): sc-161345

## BACKGROUND

ANKRD17 (ankyrin repeat domain-containing protein 17) is a 2,603 amino acid protein that contains 25 ankyrin repeats and one KH domain. ANKRD17 is expressed in bone marrow and is thought to be involved in liver development. ANKRD17 localizes to the cytoplasm and the nucleus. ANKRD17 exists as five alternatively spliced isoforms that are encoded by a gene which maps to human chromosome 4. Representing approximately 6% of the human genome, chromosome 4 contains nearly 900 genes. Notably, the Huntingtin gene, which is found to encode an expanded glutamine tract in cases of Huntington's disease, is on chromosome 4. FGFR-3 is also encoded on chromosome 4 and has been associated with thanatophoric dwarfism, achondroplasia, Muenke syndrome and bladder cancer. Chromosome 4 is also tied to Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease. Chromosome 4 reportedly contains the largest gene deserts (regions of the genome with no protein encoding genes) and has one of the two lowest recombination frequencies of the human chromosomes.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ANKRD17 (human) mapping to 4q13.3; Ankrd17 (mouse) mapping to 5 E1.

## SOURCE

ANKRD17 (Q-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of ANKRD17 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-161345 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ANKRD17 (Q-14) is recommended for detection of ANKRD17 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 other ANKRD family members.

Suitable for use as control antibody for ANKRD17 siRNA (h): sc-89052, ANKRD17 siRNA (m): sc-141081, ANKRD17 shRNA Plasmid (h): sc-89052-SH, ANKRD17 shRNA Plasmid (m): sc-141081-SH, ANKRD17 shRNA (h) Lentiviral Particles: sc-89052-V and ANKRD17 shRNA (m) Lentiviral Particles: sc-141081-V.

Molecular Weight of ANKRD17: 227 kDa.

## 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.

## 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.