

ANKRD10 (N-19): sc-83975

BACKGROUND

ANKRD10 (ankyrin repeat domain-containing protein 10) is a 420 amino acid protein that contains 4 Ankyrin repeats and is expressed as 2 alternatively spliced isoforms. The gene encoding ANKRD10 maps to chromosome 13. Comprising nearly 4% of the human genome, chromosome 13 contains around 114 million base pairs and encodes over 400 genes. Chromosome 13 houses key tumor suppressor genes, including BRCA2 and RB1, which are associated with breast cancer susceptibility and retinoblastoma, respectively. Trisomy 13, also known as Patau syndrome, is deadly and the few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections.

REFERENCES

1. Dunham, A., et al. 2004. The DNA sequence and analysis of human chromosome 13. *Nature* 428: 522-528.
2. O'Reilly, M.K., et al. 2006. *In vitro* evidence for the dual function of Alg2 and Alg11: essential mannosyltransferases in N-linked glycoprotein biosynthesis. *Biochemistry* 45: 9593-9603.
3. Rohozinski, J., et al. 2006. UTP14c is a recently acquired retrogene associated with spermatogenesis and fertility in man. *Biol. Reprod.* 74: 644-651.
4. Bugge, M., et al. 2007. Non-disjunction of chromosome 13. *Hum. Mol. Genet.* 16: 2004-2010.
5. Hall, H.E., et al. 2007. The origin of Trisomy 13. *Am. J. Med. Genet. A* 143: 2242-2248.
6. Hassler, M., et al. 2007. Crystal structure of the retinoblastoma protein N domain provides insight into tumor suppression, ligand interaction and holoprotein architecture. *Mol. Cell* 28: 371-385.

CHROMOSOMAL LOCATION

Genetic locus: ANKRD10 (human) mapping to 13q34; Ankr10 (mouse) mapping to 8 A1.1.

SOURCE

ANKRD10 (N-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of ANKRD10 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-83975 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

ANKRD10 (N-19) is recommended for detection of ANKRD10 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).

ANKRD10 (N-19) is also recommended for detection of ANKRD10 in additional species, including canine and porcine.

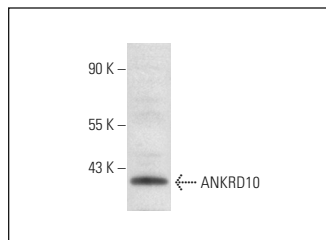
Suitable for use as control antibody for ANKRD10 siRNA (h): sc-105063, ANKRD10 siRNA (m): sc-141073, ANKRD10 shRNA Plasmid (h): sc-105063-SH, ANKRD10 shRNA Plasmid (m): sc-141073-SH, ANKRD10 shRNA (h) Lentiviral Particles: sc-105063-V and ANKRD10 shRNA (m) Lentiviral Particles: sc-141073-V.

Molecular Weight (predicted) of ANKRD10: 45 kDa.

Molecular Weight (observed) of ANKRD10: 42 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

DATA



ANKRD10 (N-19): sc-83975. Western blot analysis of ANKRD10 expression in HeLa whole cell lysate.

PROTOCOLS

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