## SANTA CRUZ BIOTECHNOLOGY, INC.

# ANKRD60 (L-20): sc-85448



## 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. ANKRD60 (ankyrin repeat domain 60) is a 345 amino acid protein that is conserved in dog, cow, mouse, rat and chicken. Containing two ANK repeats and one ubiquitin-like domain, ANKRD60 is linked to human height and may be involved in human growth and development. ANKRD60 is encoded by a gene that maps to human chromosome 20, which represents 2% of human DNA and consists of approximately 63 million bases encoding 600 genes. Chromosome 20 contains a region of numerous genes that are expressed in the epididymis and may be important for seminal production and male contraception. Human transmissible spongiform encephalopathies, Amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome are associated with chromosome 20.

#### REFERENCES

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- O'Rand, M.G., Widgren, E.E., Wang, Z. and Richardson, R.T. 2007. Eppin: an epididymal protease inhibitor and a target for male contraception. Soc. Reprod. Fertil. Suppl. 63: 445-453.

## CHROMOSOMAL LOCATION

Genetic locus: ANKRD60 (human) mapping to 20q13.32.

#### SOURCE

ANKRD60 (L-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ANKRD60 of human origin.

#### PRODUCT

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

Blocking peptide available for competition studies, sc-85448 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

ANKRD60 (L-20) is recommended for detection of ANKRD60 of 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).

ANKRD60 (L-20) is also recommended for detection of ANKRD60 in additional species, including canine.

Suitable for use as control antibody for ANKRD60 siRNA (h): sc-72747, ANKRD60 shRNA Plasmid (h): sc-72747-SH and ANKRD60 shRNA (h) Lentiviral Particles: sc-72747-V.

Molecular Weight of ANKRD60: 38 kDa.

## **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) Immunofluo-rescence: 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.

#### **STORAGE**

Store at 4° 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.

### PROTOCOLS

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