

ANKRD12 (L-17): sc-84688

BACKGROUND

ANKRD12 (ankyrin repeat domain 12), also known as ANCO2 (ankyrin repeat-containing cofactor 2), is a 2,062 amino acid protein that localizes to the nucleus and contains 3 ANK repeats. Expressed as two alternatively spliced isoforms that are present at moderate levels in lung, brain, heart, kidney, liver and testis, ANKRD12 interacts with p160 coactivators and is thought to recruit HDACs (histone deacetylases) to p160 complexes, thereby inhibiting ligand-dependent transactivation. The gene encoding ANKRD12 localizes to human chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ANKRD12 (human) mapping to 18p11.22; Ankrd12 (mouse) mapping to 17 E1.1.

SOURCE

ANKRD12 (L-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of ANKRD12 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.

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-84688 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ANKRD12 (L-17) is recommended for detection of ANKRD12 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.

ANKRD12 (L-17) is also recommended for detection of ANKRD12 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ANKRD12 siRNA (h): sc-72497, ANKRD12 siRNA (m): sc-141074, ANKRD12 shRNA Plasmid (h): sc-72497-SH, ANKRD12 shRNA Plasmid (m): sc-141074-SH, ANKRD12 shRNA (h) Lentiviral Particles: sc-72497-V and ANKRD12 shRNA (m) Lentiviral Particles: sc-141074-V.

Molecular Weight of ANKRD12: 37 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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) 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.

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.