

ANKRD11 (H-237): sc-98649

BACKGROUND

ANKRD11 (ankyrin repeat domain-containing protein 11, ankyrin repeat-containing cofactor 1) is a 2,664 amino acid protein encoded by the human gene ANKRD11. This nuclear protein belongs to a novel family of ankyrin repeat-containing cofactors for p160 nuclear receptor coactivators and contains four ankyrin repeats. Members of the p160 nuclear receptor coactivators interact with liganded nuclear receptors to enhance transcription of target genes. ANKRD11 has two intrinsic repression domains (RD): an N-terminal RD1 at residues 318-611 and a C-terminal RD2 at 2369-2663. ANKRD11 also contains an activation domain (AD) capable of stimulating transcription *in vitro*. The minimal AD is delimited to a 70 amino acid region at residues 2076-2145. Overall, ANKRD11 acts as a transcriptional repressor, suggesting that RD domains may suppress the AD activity. ANKRD11 shows the potential of modulating a combination of repression and activation signals.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ANKRD11 (human) mapping to 16q24.3; Ankrd11 (mouse) mapping to 8 E1.

SOURCE

ANKRD11 (H-237) is a rabbit polyclonal antibody raised against amino acids 1545-1778 mapping within an internal region of ANKRD11 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.

APPLICATIONS

ANKRD11 (H-237) is recommended for detection of ANKRD11 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

Suitable for use as control antibody for ANKRD11 siRNA (h): sc-93530, ANKRD11 siRNA (m): sc-77402, ANKRD11 shRNA Plasmid (h): sc-93530-SH, ANKRD11 shRNA Plasmid (m): sc-77402-SH, ANKRD11 shRNA (h) Lentiviral Particles: sc-93530-V and ANKRD11 shRNA (m) Lentiviral Particles: sc-77402-V.

Molecular Weight of ANKRD11: 298 kDa.

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

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.

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 or our catalog for detailed protocols and support products.