

ANKRD37 (G-11): sc-138114

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. ANKRD37 (Ankyrin repeat domain 37), also known as Lrp2bp, is a 158 amino acid protein that localized to both nucleus and cytoplasm. Mainly expressed in testis, small intestine, colon, blood leukocytes and pancreatic adenocarcinoma cells, ANKRD37 contains three ANK repeats, suggesting involvement in mediating protein-protein interactions. The gene encoding ANKRD37 maps to human chromosome 4, which encodes nearly 6% of the human genome and has the largest number of gene deserts (regions of the genome with no protein encoding genes) of all of the human chromosomes.

REFERENCES

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6. Cai, X. and Zhang, Y. 2006. Molecular evolution of the Ankyrin gene family. *Mol. Biol. Evol.* 23: 550-558.
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CHROMOSOMAL LOCATION

Genetic locus: ANKRD37 (human) mapping to 4q35.1; Ankrd37 (mouse) mapping to 8 B1.1.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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

SOURCE

ANKRD37 (G-11) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ANKRD37 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-138114 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ANKRD37 (G-11) is recommended for detection of ANKRD37 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 ANKRD37 siRNA (h): sc-89206, ANKRD37 siRNA (m): sc-141096, ANKRD37 shRNA Plasmid (h): sc-89206-SH, ANKRD37 shRNA Plasmid (m): sc-141096-SH, ANKRD37 shRNA (h) Lentiviral Particles: sc-89206-V and ANKRD37 shRNA (m) Lentiviral Particles: sc-141096-V.

Molecular Weight of ANKRD37: 17 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.

RESEARCH USE

For research use only, not for use in diagnostic procedures.