

ARMC1 (C-15): sc-86975

BACKGROUND

The armadillo (ARM) repeat family of proteins are related to the *Drosophila melanogaster* armadillo protein, a protein essential for wingless signal transduction. ARM proteins are involved in a variety of processes such as cell migration, cell proliferation, tissue maintenance and tumorigenesis, and they also function in signal transduction and the maintenance of overall cell structure. ARMC1 (armadillo repeat-containing protein 1), also known as ARCP, is a 282 amino acid protein that contains one ARM repeat, suggesting a role in signal transduction pathways throughout the cell. The gene encoding ARMC1 maps to human chromosome 8, which consists of nearly 146 million base pairs, houses more than 800 genes and is associated with a variety of diseases and malignancies. Schizophrenia, bipolar disorder, trisomy 8, Pfeiffer syndrome, congenital hypothyroidism, Waardenburg syndrome and some leukemias and lymphomas are thought to occur as a result of defects in specific genes that maps to chromosome 8.

REFERENCES

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- Selicorni, A., et al. 2002. Cytogenetic mapping of a novel locus for type II Waardenburg syndrome. *Hum. Genet.* 110: 64-67.
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CHROMOSOMAL LOCATION

Genetic locus: ARMC1 (human) mapping to 8q13.1; Armc1 (mouse) mapping to 3 A2.

SOURCE

ARMC1 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of ARMC1 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-86975 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ARMC1 (C-15) is recommended for detection of ARMC1 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).

ARMC1 (C-15) is also recommended for detection of ARMC1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ARMC1 siRNA (h): sc-77435, ARMC1 siRNA (m): sc-141252, ARMC1 shRNA Plasmid (h): sc-77435-SH, ARMC1 shRNA Plasmid (m): sc-141252-SH, ARMC1 shRNA (h) Lentiviral Particles: sc-77435-V and ARMC1 shRNA (m) Lentiviral Particles: sc-141252-V.

Molecular Weight (predicted) of ARMC1: 31 kDa.

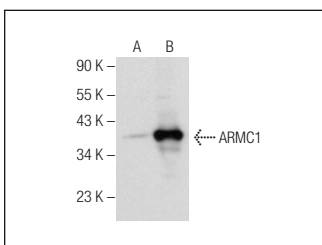
Molecular Weight (observed) of ARMC1: 38 kDa.

Positive Controls: ARMC1 (m): 293T Lysate: sc-118551.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



ARMC1 (C-15): sc-86975. Western blot analysis of ARMC1 expression in non-transfected: sc-117752 (A) and mouse ARMC1 transfected: sc-118551 (B) 293T whole cell lysates.

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.