

ARMCX2 (P-14): sc-131112

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. ARM CX2 (armadillo repeat containing, X-linked 2), also known as ALEX2, is a 632 amino acid single-pass membrane protein that contains three ARM repeats and is highly expressed in testis, brain, ovary, heart, colon, spleen and prostate, where it is thought to play a role in tumor suppression. The gene encoding ARM CX2 maps to human chromosome X, which contains nearly 153 million base pairs and houses over 1,000 genes.

REFERENCES

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3. Nagase, T., Ishikawa, K., Miyajima, N., Tanaka, A., Kotani, H., Nomura, N. and Ohara, O. 1998. Prediction of the coding sequences of unidentified human genes. IX. The complete sequences of 100 new cDNA clones from brain which can code for large proteins *in vitro*. *DNA Res.* 5: 31-39.
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CHROMOSOMAL LOCATION

Genetic locus: ARM CX2 (human) mapping to Xq22.1; Armcx9 (mouse) mapping to X E3.

SOURCE

ARM CX2 (P-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ARM CX2 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-131112 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

ARM CX2 (P-14) is recommended for detection of ARM CX2 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 AMR family members.

ARM CX2 (P-14) is also recommended for detection of ARM CX2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ARM CX2 siRNA (h): sc-91286, ARM CX2 siRNA (m): sc-141263, ARM CX2 shRNA Plasmid (h): sc-91286-SH, ARM CX2 shRNA Plasmid (m): sc-141263-SH, ARM CX2 shRNA (h) Lentiviral Particles: sc-91286-V and ARM CX2 shRNA (m) Lentiviral Particles: sc-141263-V.

Molecular Weight of ARM CX2: 66 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.

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.