

# ARMC6 (C-12): sc-131403

## 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. They are intracellular proteins that function in signal transduction and cell structure. ARMC6 (armadillo repeat-containing protein 6) is a 501 amino acid protein that contains 4 ARM domains. The gene encoding ARMC6 maps to chromosome 19p13.11. Chromosome 19 is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fc receptors.

## REFERENCES

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2. Kurochkin, I.V., et al. 2001. ALEX1, a novel human armadillo repeat protein that is expressed differentially in normal tissues and carcinomas. *Biochem. Biophys. Res. Commun.* 280: 340-347.
3. Coates, J.C. 2003. Armadillo repeat proteins: beyond the animal kingdom. *Trends Cell Biol.* 13: 463-471.
4. Smith, C.A., et al. 2005. Temporal and spatial expression profile of the novel armadillo-related gene, Alex2, during testicular differentiation in the mouse embryo. *Dev. Dyn.* 233: 188-193.
5. Park, J.H., et al. 2006. PDZ-binding kinase/T-LAK cell-originated protein kinase, a putative cancer/testis antigen with an oncogenic activity in breast cancer. *Cancer Res.* 66: 9186-9195.
6. Okada, T., et al. 2006. A novel cancer testis antigen that is frequently expressed in pancreatic, lung, and endometrial cancers. *Clin. Cancer Res.* 12: 191-197.
7. Li, X., et al. 2006. Cloning and expression of ARMC3\_v2, a novel splicing variant of the human ARMC3 gene. *Genetika* 42: 999-1003.

## CHROMOSOMAL LOCATION

Genetic locus: ARMC6 (human) mapping to 19p13.11.

## SOURCE

ARMC6 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of ARMC6 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-131403 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ARMC6 (C-12) is recommended for detection of ARMC6 of 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 ARMC family members.

ARMC6 (C-12) is also recommended for detection of ARMC6 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for ARMC6 siRNA (h): sc-97279, ARMC6 shRNA Plasmid (h): sc-97279-SH and ARMC6 shRNA (h) Lentiviral Particles: sc-97279-V.

Molecular Weight of ARMC6: 54 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.