



## ARMC6 (G-12): sc-131405

### 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 four 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

1. Kawamura, Y., et al. 1999. Expression of the mRNA for two isoforms of neural plakophilin-related arm-repeat protein/ $\delta$ -catenin in rodent neurons and glial cells. *Neurosci. Lett.* 277: 185-188.
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* (mouse) mapping to 8 B3.3.

### SOURCE

ARMC6 (G-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ARMC6 of mouse origin.

### 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.

### 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-131405 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

ARMC6 (G-12) is recommended for detection of ARMC6 isoforms 1 and 2 of mouse and rat 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.

Suitable for use as control antibody for ARMC6 siRNA (m): sc-141258, ARMC6 shRNA Plasmid (m): sc-141258-SH and ARMC6 shRNA (m) Lentiviral Particles: sc-141258-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.

### PROTOCOLS

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