

ARMCX3 (A-13): sc-103392

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 and function in signal transduction and cell structure. ARMCX3 (armadillo repeat containing, X-linked 3), also known as ALEX3 (ARM protein lost in epithelial cancers on chromosome X 3), is a single pass membrane protein belonging to the armadillo repeat family of proteins. ARMCX3 contains three ARM repeats and shares 60% sequence similarity with the related proteins, ARMCX1 and ARMCX2. ARMCX3 is believed to play a role in embryonic development and tissue maintenance and may also function as a tumor suppressor.

REFERENCES

1. Kurochkin, I.V., Yonemitsu, N., Funahashi, S.I. and Nomura, H. 2001. ALEX1, a novel human armadillo repeat protein that is expressed differentially in normal tissues and carcinomas. *Biochem. Biophys. Res. Commun.* 280: 340-347.
2. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 300364. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
3. Hsia, N. and Cornwall, G.A. 2004. DNA microarray analysis of region-specific gene expression in the mouse epididymis. *Biol. Reprod.* 70: 448-457.
4. Smith, C.A., McClive, P.J. and Sinclair, A.H. 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. Olsen, J.V., Blagoev, B., Gnad, F., Macek, B., Kumar, C., Mortensen, P. and Mann, M. 2006. Global, *in vivo*, and site-specific phosphorylation dynamics in signaling networks. *Cell* 127: 635-648.

CHROMOSOMAL LOCATION

Genetic locus: ARMCX3 (human) mapping to Xq22.1; Armcx3 (mouse) mapping to X E3.

SOURCE

ARMCX3 (A-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ARMCX3 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-103392 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

ARMCX3 (A-13) is recommended for detection of ARMCX3 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); non cross-reactive with other ARMCX family members.

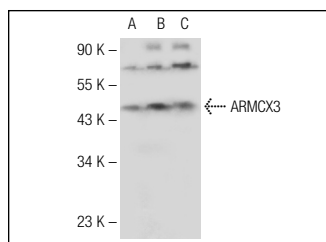
ARMCX3 (A-13) is also recommended for detection of ARMCX3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ARMCX3 siRNA (h): sc-91193, ARMCX3 siRNA (m): sc-105090, ARMCX3 shRNA Plasmid (h): sc-91193-SH, ARMCX3 shRNA Plasmid (m): sc-105090-SH, ARMCX3 shRNA (h) Lentiviral Particles: sc-91193-V and ARMCX3 shRNA (m) Lentiviral Particles: sc-105090-V.

Molecular Weight of ARMCX3: 43 kDa.

Positive Controls: COLO 320DM cell lysate: sc-2226 or ARMCX3 (h2): 293T Lysate: sc-173186.

DATA



ARMCX3 (A-13): sc-103392. Western blot analysis of ARMCX3 expression in non-transfected 293T: sc-117752 (A), human ARMCX3 transfected 293T: sc-173186 (B) and COLO 320DM (C) whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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



Try **ARMCX3 (A-8): sc-393752** or **ARMCX3 (Q11): sc-100675**, our highly recommended monoclonal alternatives to ARMCX3 (A-13).