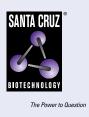
SANTA CRUZ BIOTECHNOLOGY, INC.

ARMC7 (G-11): sc-515317



BACKGROUND

ARMC7 (armadillo repeat containing 7) is a 198 amino acid protein that contains two ARM repeats and participates in binding activity. Conserved in chimpanzee, canine, bovine, mouse, rat, chicken, zebrafish, *Arabidopsis thaliana* and rice, ARMC7 exhibits cancer-specific methylation, although a biological role remains to be determined. ARMC7 is encoded by a gene that maps to human chromosome 17q25.1. Chromosome 17 makes up over 2.5% of the human genome, with approximately 81 million bases encoding more than 1,200 genes. Chromosome 17 is linked to neurofibromatosis, a condition characterized by neural and epidermal lesions and dysregulated Schwann cell growth. Alexander disease, Birt-Hogg-Dube syndrome and Canavan disease are also associated with chromosome 17.

REFERENCES

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- Shen, Y., Chow, J., Wang, Z. and Fan, G. 2006. Abnormal CpG island methylation occurs during *in vitro* differentiation of human embryonic stem cells. Hum. Mol. Genet. 15: 2623-2635.
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CHROMOSOMAL LOCATION

Genetic locus: ARMC7 (human) mapping to 17q25.1; Armc7 (mouse) mapping to 11 E2.

SOURCE

ARMC7 (G-11) is a mouse monoclonal antibody raised against amino acids 1-118 mapping at the N-terminus of ARMC7 of human origin.

PRODUCT

Each vial contains 200 μg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ARMC7 (G-11) is available conjugated to agarose (sc-515317 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-515317 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515317 PE), fluorescein (sc-515317 FITC), Alexa Fluor[®] 488 (sc-515317 AF488), Alexa Fluor[®] 546 (sc-515317 AF546), Alexa Fluor[®] 594 (sc-515317 AF594) or Alexa Fluor[®] 647 (sc-515317 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-515317 AF680) or Alexa Fluor[®] 790 (sc-515317 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

ARMC7 (G-11) is recommended for detection of ARMC7 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

Suitable for use as control antibody for ARMC7 siRNA (h): sc-93568, ARMC7 siRNA (m): sc-141259, ARMC7 shRNA Plasmid (h): sc-93568-SH, ARMC7 shRNA Plasmid (m): sc-141259-SH, ARMC7 shRNA (h) Lentiviral Particles: sc-93568-V and ARMC7 shRNA (m) Lentiviral Particles: sc-141259-V.

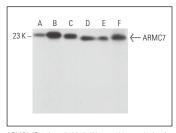
Molecular Weight of ARMC7: 22 kDa.

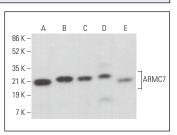
Positive Controls: PC-3 cell lysate: sc-2220, RT-4 whole cell lysate: sc-364257 or A549 cell lysate: sc-2413.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA





ARMC7 (G-11): sc-515317. Western blot analysis of ARMC7 expression in RT-4 (A), A549 (B), PC-3 (C), RAW 264.7 (D) and TK-1 (E) whole cell lysates and rat hippocampus tissue extract (F).

ARMC7 (G-11): sc-515317. Western blot analysis of ARMC7 expression in NIH/313 (A), Jurkat (B), CCRF-CEM (C), HL-60 (D) and RAW 264.7 (E) whole cell lysates. Detection reagent used: m-lgG κ BP-HRP: sc-516102.

STORAGE

Store at 4° C, **D0 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.

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