SANTA CRUZ BIOTECHNOLOGY, INC.

Annexin XI (A-12): sc-55494



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BACKGROUND

The Annexin family of calcium-binding proteins is composed of at least ten mammalian genes. It is characterized by a conserved core domain, which binds to phospholipids in a Ca²⁺-dependent manner, and a unique amino terminal region, which may confer binding specificity. The Annexin family has been implicated as regulators of such diverse processes as ion-flux, endocytosis and exocytosis, and cellular adhesion. Two forms of Annexin XI, designated A and B, have been identified. Transfection of COS-7 cells with Annexin XI-A, but not Annexin XI-B, causes formation of Annexin XI-associated vesicles.

REFERENCES

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- Mailliard, W.S., Haigler, H.T. and Schlaepfer, D.D. 1996. Calcium-dependent binding of S100C to the N-terminal domain of Annexin I. J. Biol. Chem. 271: 719-725.
- Chasserot-Golaz, S., Vitale, N., Sagot, I., Delouche, B., Dirrig, S., Pradel, L.A., Henry, J.P., Aunis, D. and Bader, M.F. 1996. Annexin II in exocytosis: catecholamine secretion requires the translocation of p36 to the subplasmalemmal region in chromaffin cells. J. Cell Biol. 133: 1217-1236.
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- Williams, L.H., McClive, P.J., Van Den Bergen, J.A. and Sinclair, A.H. 2005. Annexin XI co-localizes with calcyclin in proliferating cells of the embryonic mouse testis. Dev. Dyn. 234: 432-437.

CHROMOSOMAL LOCATION

Genetic locus: ANXA11 (human) mapping to 10q23; Anxa11 (mouse) mapping to 14 A3.

SOURCE

Annexin XI (A-12) is a mouse monoclonal antibody raised against amino acids 376-420 of Annexin XI of human origin.

PRODUCT

Each vial contains 200 μg lgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **D0 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 for detailed protocols and support products.

APPLICATIONS

Annexin XI (A-12) is recommended for detection of Annexin XI 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).

Suitable for use as control antibody for Annexin XI siRNA (h): sc-29694, Annexin XI siRNA (m): sc-29695, Annexin XI shRNA Plasmid (h): sc-29694-SH, Annexin XI shRNA Plasmid (m): sc-29695-SH, Annexin XI shRNA (h) Lentiviral Particles: sc-29694-V and Annexin XI shRNA (m) Lentiviral Particles: sc-29695-V.

Molecular Weight of Annexin XI: 50 kDa.

Positive Controls: Annexin XI (h): 293T Lysate: sc-170010, WI-38 whole cell lysate: sc-364260 or NIH/3T3 whole cell lysate: sc-2210.

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, TBS Blotto A Blocking Reagent: sc-2333 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





Annexin XI (A-12): sc-55494. Western blot analysis of Annexin XI expression in NIH/3T3 (A), 3T3-L1 (B), C3H/10T1/2 (C) and COLO 205 (D) whole cell lysates Annexin XI (A-12): sc-55494. Western blot analysis of Annexin XI expression in non-transfected 293T: sc-117752 (**A**), human Annexin XI transfected 293T: sc-170010 (**B**) and WI-38 (**C**) whole cell lysates.

RESEARCH USE

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