SANTA CRUZ BIOTECHNOLOGY, INC.

Annexin XI (H-45): sc-28826

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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 Ca^{2+}-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

1. Smith, P.D. and Moss, S.E. 1994. Structural evolution of the Annexin supergene family. Trends Gen. 10: 241-246.
2. Waisman, D.M. 1995. Annexin II tetramer: structure and function. Mol. Cell. Biochem. 149-150: 301-322.
3. 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.
4. 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.
5. Sudo, T., Mamiya, N., Goto, M., Watanabe, Y. and Hidaka, H. 1996. Isoform-specific intracellular vesicle formation by recombinant Annexin XI-A in Sf9 cells. Biochem. Biophys. Res. Commun. 223: 706-711.

CHROMOSOMAL LOCATION

Genetic locus: ANXA11 (human) mapping to 10q22.3; Anxa11 (mouse) mapping to 14 A3.

SOURCE

Annexin XI (H-45) is a rabbit polyclonal antibody raised against amino acids 376-420 mapping within an internal region of Annexin XI 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.

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 or our catalog for detailed protocols and support products.

APPLICATIONS

Annexin XI (H-45) 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).

Annexin XI (H-45) is also recommended for detection of Annexin XI in additional species, including equine, canine, bovine and porcine.

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.

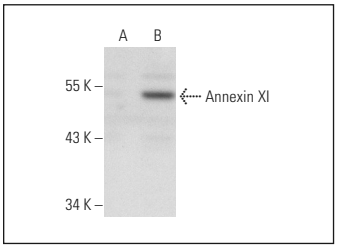
Molecular Weight of Annexin XI: 50-56 kDa.

Positive Controls: Annexin XI (m): 293T Lysate: sc-118437, A-431 nuclear extract: sc-2122 or NIH/3T3 nuclear extract: sc-2138.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Annexin XI (H-45): sc-28826. Western blot analysis of Annexin XI expression in non-transfected: sc-117752 (**A**) and mouse Annexin XI transfected: sc-118437 (**B**) 293T whole cell lysates.

RESEARCH USE

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