

Annexin XI (N-17): sc-9321

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 their respective binding specificities. 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 super-gene 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. Mailliar, 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 sub-plasmalemmal 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 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Annexin XI of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-9321 P, (100 μ g 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.

PROTOCOLS

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

APPLICATIONS

Annexin XI (N-17) 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 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).

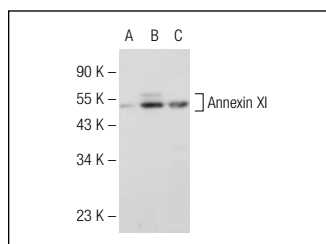
Annexin XI (N-17) is also recommended for detection of Annexin XI in additional species, including equine, canine, bovine and porcine.

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.

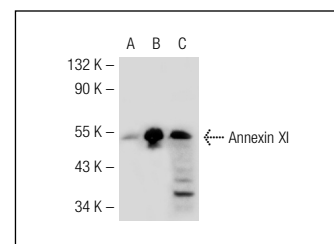
Molecular Weight of Annexin XI: 50-56 kDa.

Positive Controls: Annexin XI (h): 293T Lysate: sc-170010, Annexin XI (m): 293T Lysate: sc-118437 or NIH/3T3 nuclear extract: sc-2138.

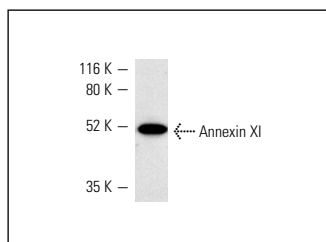
DATA



Annexin XI (N-17): sc-9321. 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.



Annexin XI (N-17): sc-9321. Western blot analysis of Annexin XI expression in non-transfected 293T: sc-117752 (A), mouse Annexin XI transfected 293T: sc-118437 (B) and A-431 (C) whole cell lysates.



Annexin XI (N-17): sc-9321. Western blot analysis of Annexin XI expression in 3611-RF nuclear extract.



Annexin XI (N-17): sc-9321. Immunofluorescence staining of methanol-fixed 3611-RF cells showing cytoplasmic staining.

RESEARCH USE

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