

# Annexin XI (16): sc-136382

## 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

- Smith, P.D., et al. 1994. Structural evolution of the annexin supergene family. *Trends Gen.* 10: 241-246.
- Waisman, D.M. 1995. Annexin II tetramer: structure and function. *Mol. Cell. Biochem.* 149: 301-322.
- Mailliard, W.S., et al. 1996. Calcium-dependent binding of S100C to the N-terminal domain of Annexin I. *J. Biol. Chem.* 271: 719-725.
- Chasserot-Golaz, S., et al. 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.
- Sudo, T., et al. 1996. Isoform-specific intracellular vesicle formation by recombinant Annexin XI-A in Sf9 cells. *Biochem. Biophys. Res. Commun.* 223: 706-711.
- Williams, L.H., et al. 2005. Annexin XI co-localises with Calcyclin in proliferating cells of the embryonic mouse testis. *Dev. Dyn.* 234: 432-437.

## CHROMOSOMAL LOCATION

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

## SOURCE

Annexin XI (16) is a mouse monoclonal antibody raised against amino acids 71-172 of Annexin XI of mouse origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>1</sub> kappa light chain in 1.0 ml 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](http://www.scbt.com) for detailed protocols and support products.

## APPLICATIONS

Annexin XI (16) 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  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

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.

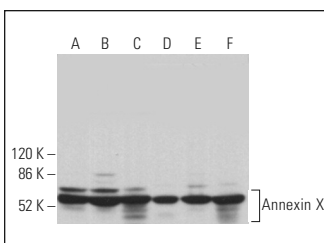
Molecular Weight of Annexin XI: 50-56 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, CCRF-CEM cell lysate: sc-2225 or T24 cell lysate: sc-2292.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  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-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  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 (16): sc-136382. Western blot analysis of Annexin XI expression in Jurkat (A), CCRF-CEM (B), T24 (C), RAW 264.7 (D), 3T3-L1 (E) and C3H/10T1/2 (F) whole cell lysates.

## RESEARCH USE

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