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


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 IgG₂a kappa light chain 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.

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).


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:

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.

RESEARCH USE

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

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