

Annexin III (5F1): sc-134260

BACKGROUND

The annexin family of calcium-binding proteins is composed of at least ten mammalian genes and is characterized by a conserved core domain, which binds phospholipids in a Ca²⁺-dependent manner and a unique amino-terminal region, which may confer binding specificity. Annexin family members have been implicated as regulators of such diverse processes as ion flux, endocytosis, exocytosis and cellular adhesion. Annexin III, also known as ANXA3, Annexin A3, Lipocortin III, PAP-III (placental anticoagulant protein III), 35- α calcimedlin or ANX3, belongs to the annexin family and contains four annexin repeats. Annexin III exhibits a variety of functions, including anti-coagulant properties, an inhibitory role towards phospholipase A₂ (PLA₂) and an enzymatic function, cleaving the cyclic bond of inositol 1,2-cyclic phosphate to produce inositol 1-phosphate.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ANXA3 (human) mapping to 4q21.21.

SOURCE

Annexin III (5F1) is a mouse monoclonal antibody raised against recombinant Annexin III protein of human origin.

PRODUCT

Each vial contains 100 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Annexin III (5F1) is recommended for detection of Annexin III of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Annexin III siRNA (h): sc-89288, Annexin III shRNA Plasmid (h): sc-89288-SH and Annexin III shRNA (h) Lentiviral Particles: sc-89288-V.

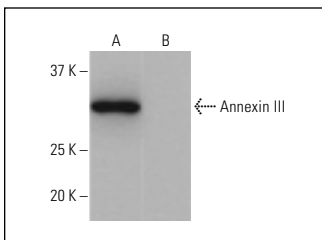
Molecular Weight of Annexin III: 36 kDa.

Positive Controls: human Annexin III transfected 293T whole cell lysate.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



Annexin III (5F1): sc-134260. Western blot analysis of Annexin III expression in human Annexin III transfected (A) and non-transfected (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

- Zeidan, B., et al. 2015. Annexin A3 is a mammary marker and a potential neoplastic breast cell therapeutic target. *Oncotarget* 6: 21421-21427.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

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