



Annexin IV (h3): 293T Lysate: sc-170405

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. Annexin family members have been implicated as regulators of such diverse processes as ion flux, endocytosis and exocytosis, and cellular adhesion. For example, the crystal structure of Annexin III has suggested a hydrophilic amino-terminus with possible Ca^{2+} channel activity. Similarly, Annexin V has ion channel properties. Annexin IV, also referred to as endonexin, functions to regulate Cl^- -flux by mediating calmodulin kinase II (CaMKII) activity and Annexin V has been shown to regulate PKC activity.

REFERENCES

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6. Liemann, S., Benz, J., Burger, A., Voges, D., Hofmann, A., Huber, R. and Götting, P. 1996. Structural and functional characterization of the voltage sensor in the ion channel human Annexin V. *J. Mol. Biol.* 258: 555-561.

CHROMOSOMAL LOCATION

Genetic locus: ANXA4 (human) mapping to 2p13.3.

PRODUCT

Annexin IV (h3): 293T Lysate represents a lysate of human Annexin IV transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

Annexin IV (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive Annexin IV antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

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