

Annexin VIII (h2): 293T Lysate: sc-170450

BACKGROUND

The annexin family is composed of at least ten mammalian genes that encode calcium-binding proteins. The annexin proteins are characterized by a conserved core domain, which binds to phospholipids in a calcium-dependent manner. Annexin family members have been implicated as regulators of such diverse processes as ion flux, endocytosis and exocytosis, and cellular adhesion. Annexin V is ubiquitously expressed at high levels in tissues and cells grown in tissue culture, while Annexin VIII exhibits a more limited distribution. Where coexpressed in the same tissues, Annexin VIII is often expressed at a 100-fold lower level than Annexin V. However, Annexin VIII is preferentially expressed in acute promyelocytic leukemia (APL) cells, which may relate to its role in hematopoietic cell differentiation. At this time it is believed that there are duplicated copies of ANXA8-like genes on human chromosome 10q11.22 which putatively encode 3 highly similar proteins designated ANXA8L1 and ANXA8L2 (Annexin A8-like 1 and Annexin A8-like 2).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ANXA8 (human) mapping to 10q11.22.

PRODUCT

Annexin VIII (h2): 293T Lysate represents a lysate of human Annexin VIII transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Annexin VIII (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Annexin VIII antibodies. Recommended use: 10-20 µl per lane.

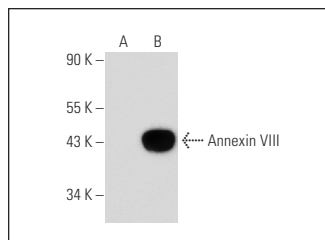
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Annexin VIII (D-1): sc-271577 is recommended as a positive control antibody for Western Blot analysis of enhanced human Annexin VIII expression in Annexin VIII transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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.

DATA



Annexin VIII (D-1): sc-271577. Western blot analysis of Annexin VIII expression in non-transfected: sc-117752 (A) and human Annexin VIII transfected: sc-170450 (B) 293T whole cell lysates.

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.

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.