

# Annexin VIII (H-60): sc-28825

## BACKGROUND

The Annexin family is composed of at least ten mammalian genes, which 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 co-expressed 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.

## REFERENCES

1. Smith, P.D. and Moss, S.E. 1994. Structural evolution of the Annexin supergene family. *Trends Gen.* 10: 241-246.
2. Reutelingsperger, C.P., et al. 1994. Differential tissue expression of Annexin VIII in human. *FEBS Lett.* 349: 120-124.
3. Liu, J.H., et al. 1994. Expression of the Annexin VIII gene in acute promyelocytic leukemia. *Leuk. Lymph.* 13: 381-386.
4. Chan, H.C., et al. 1994. Annexin IV inhibits calmodulin-dependent protein kinase II-activated chloride conductance. A novel mechanism for ion channel regulation. *J. Biol. Chem.* 269: 32464-32468.
5. Rothhut, B., et al. 1995. Inhibitory effect of Annexin V on protein kinase C activity in mesangial cell lysates. *Eur. J. Biochem.* 232: 865-872.
6. Mailliar, W.S., et al. 1996. Calcium-dependent binding of S100C to the N-terminal domain of Annexin I. *J. Biol. Chem.* 271: 719-725.
7. Favier-Perron, B., et al. 1996. The high-resolution crystal structure of human Annexin III shows subtle differences with Annexin V. *Biochem.* 35: 1740-1744.

## CHROMOSOMAL LOCATION

Genetic locus: ANXA8 (human) mapping to 10q11.22, ANXA5 (human) mapping to 4q27; Anxa8 (mouse) mapping to 14 B, Anxa5 (mouse) mapping to 3 B.

## SOURCE

Annexin VIII (H-60) is a rabbit polyclonal antibody raised against amino acids 121-180 mapping within an internal region of Annexin VIII of human origin.

## PRODUCT

Each vial contains 200 µg IgG 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

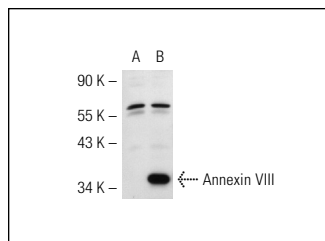
Annexin VIII (H-60) is recommended for detection of Annexin VIII, and to a lesser extent, Annexin V of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); also recommended for detection of ANXA8L1 and ANXA8L2 of human origin.

Annexin VIII (H-60) is also recommended for detection of Annexin VIII, and to a lesser extent, Annexin V in additional species, including equine, canine, bovine and porcine.

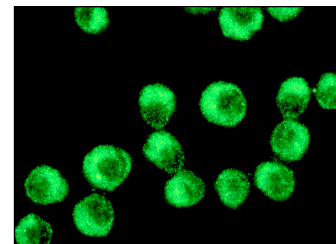
Molecular Weight of Annexin VIII: 36 kDa.

Positive Controls: JAR cell lysate: sc-2276 or Annexin VIII (m2): 293T Lysate: sc-118436.

## DATA



Annexin VIII (H-60): sc-28825. Western blot analysis of Annexin VIII expression in non-transfected: sc-117752 (A) and mouse Annexin VIII transfected: sc-118436 (B) 293T whole cell lysates.



Annexin VIII (H-60): sc-28825. Immunofluorescence staining of methanol-fixed K562 cells showing cytoplasmic localization.

## SELECT PRODUCT CITATIONS

1. Klinakis, A., et al. 2009. IGF-1R as a therapeutic target in a mouse model of basal-like breast cancer. *Proc. Natl. Acad. Sci. USA* 106: 2359-2364.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Satisfaction  
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Try **Annexin VIII (C-11): sc-514498** or **Annexin VIII (D-1): sc-271577**, our highly recommended monoclonal alternatives to Annexin VIII (H-60).