**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 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 channel activity. Similarly, Annexin V has ion channel properties. Annexin IV, and in other tissues, 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**


**SOURCE**

Annexin V (FL-319) is a rabbit polyclonal antibody raised against amino acids 1-319 representing full length Annexin V 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.

**APPLICATIONS**

Annexin V (FL-319) is recommended for detection of Annexin V and, to a lesser extent, Annexin IV and Annexin VI 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).

Annexin V (FL-319) is also recommended for detection of Annexin V and, to a lesser extent, Annexin IV and Annexin VI in additional species, including equine, canine, bovine and porcine.

Molecular Weight of Annexin V: 36 kDa.

Positive Controls: Annexin V (m): 293T Lysate: sc-118434, HeLa whole cell lysate: sc-2200 or KNRK whole cell lysate: sc-2214.

**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.

**DATA**

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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