**BACKGROUND**

The annexin family of calcium-binding proteins contains several family members that are 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 diverse processes, such as ion flux, endocytosis, exocytosis and cellular adhesion. Annexin A9 (ANXA9), also known as Annexin-3, is a 345 amino acid protein that contains 4 Annexin domains and may act as a low affinity receptor for acetylcholine. It is an atypical member of the annexin family because its intracellular activity is not subject to Ca$^{2+}$ regulation as a result of sequence mutations. Annexin A9 is one of the target proteins that is recognized by autoantibodies in patients with pemphigus vulgaris, a rare autoimmune skin condition in which blisters occur in the epidermis due to loss of cell-cell adhesion.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: ANXA9 (human) mapping to 1q21.3; Anxa9 (mouse) mapping to 3 F2.1.

**SOURCE**

Annexin A9 (F-9) is a mouse monoclonal antibody raised against amino acids 186-270 mapping within an internal region of Annexin A9 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG κ, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Annexin A9 (F-9) is available conjugated to agarose (sc-374288 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-374288 HRP), 200 µg/ml, for WB, IHC(κ) and ELISA; to either phycoerythrin (sc-374288 PE), fluorescein (sc-374288 FITC), Alexa Fluor® 488 (sc-374288 AF488), Alexa Fluor® 546 (sc-374288 AF546), Alexa Fluor® 594 (sc-374288 AF594) or Alexa Fluor® 647 (sc-374288 AF647), 200 µg/ml, for WB (RGB), IF, IHC(κ) and FCM; and to either Alexa Fluor® 680 (sc-374288 AF680) or Alexa Fluor® 790 (sc-374288 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**STORAGE**

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

**APPLICATIONS**

Annexin A9 (F-9) is recommended for detection of Annexin A9 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1,000), 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


Molecular Weight of Annexin A9: 38 kDa.

Positive Controls: Annexin A9 (m): 293T Lysate: sc-118427 or BJ whole cell lysate: sc-364359.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ HRP: sc-516102 or m-IgG κ 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-2035 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG κ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

**DATA**

[Image showing Annexin A9 (F-9) Western blot analysis on a gel.]

[Image showing Annexin A9 (F-9) immunoperoxidase staining of formalin fixed, paraffin-embedded human gall bladder tissue showing cytoplasmic and membrane staining of glandular cells.]

**RESEARCH USE**

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

**PROTOCOLS**

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