

p-Annexin I (295.Tyr 21): sc-135750

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. The interaction between Annexin proteins and various biological membranes has led to the hypothesis that the former are involved in cellular trafficking processes such as endocytosis, exocytosis and cellular adhesion. Annexin I, alternatively referred to as Calpactin II, Lipocortin I, Chromobindin-9, p35 or phospholipase A2 inhibitory protein, has been implicated as a mediator of the anti-inflammatory response produced by glucocorticoids and as an inhibitor of cPLA2, a potent mediator of inflammation. Annexin I becomes phosphorylated post-translationally by protein kinase C (PKC), epidermal growth factor receptor (EGFR) and LTRPC7.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ANXA1 (human) mapping to 9q21.13.

SOURCE

p-Annexin I (295.Tyr 21) is a mouse monoclonal antibody raised against a short amino acid sequence containing Tyr 21 phosphorylated Annexin I of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

p-Annexin I (295.Tyr 21) is recommended for detection of Tyr 21 phosphorylated Annexin I of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Annexin I siRNA (h): sc-29198, Annexin I shRNA Plasmid (h): sc-29198-SH and Annexin I shRNA (h) Lentiviral Particles: sc-29198-V.

Molecular Weight of p-Annexin I: 38 kDa.

Positive Controls: A-431 + EGF whole cell lysate: sc-2202.

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, TBS Blotto B Blocking Reagent: sc-2335 (use 50 mM NaF, sc-24988, as diluent), Lambda Phosphatase: sc-200312A and Western Blotting Luminol Reagent: sc-2048.

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. Not for resale.

PROTOCOLS

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