**p-Annexin II (85.Tyr 24): sc-135753**

**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 Ca2+-dependent manner, and a unique amino-terminal region which may confer binding specificity. The interaction between these proteins and biological membranes has led to the hypothesis that they are involved in cellular trafficking processes such as endocytosis, exocytosis and cellular adhesion. Annexin I, alternatively referred to as lipocortin, 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 II, also called p36, exists as a monomer or as a heterotetramer, complexed with the S-100-related protein p11. This complex is termed calpactin I. In the tetrameric form, Annexin II is an efficient substrate of PKC family and Src p60. Annexin II is subject to phosphorylation on specific amino acid residues, such as Tyr 24.

**CHROMOSOMAL LOCATION**

Genetic locus: ANXA2 (human) mapping to 15q22.2; Anxa2 (mouse) mapping to 9 C.

**SOURCE**

p-Annexin II (85.Tyr 24) is a mouse monoclonal antibody raised against a short amino acid sequence containing Tyr 24 phosphorylated Annexin II 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.

p-Annexin II (85.Tyr 24) is available conjugated to agarose (sc-135753 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; and to HRP (sc-135753 HRP), 200 µg/ml, for WB, IHC(P) and ELISA.

**APPLICATIONS**

p-Annexin II (85.Tyr 24) is recommended for detection of Tyr 24 phosphorylated Annexin II 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


Molecular Weight of p-Annexin II monomer: 36 kDa.

Molecular Weight of p-Annexin II heterotetramer: 90 kDa.

Positive Controls: COLO 205 whole cell lysate: sc-364177, JAR cell lysate: sc-2276 or EOC 20 whole cell lysate: sc-364187.

**STORAGE**

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

**DATA**

- **55 K**
- **43 K**
- **34 K**
- **23 K**

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A  B  C  D
← p-Annexin II
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p-Annexin II (85.Tyr 24): sc-135753. Western blot analysis of Annexin II phosphorylation in JAR (A), COLO 205 (B), NIH3T3 (C) and EOC 20 (D) whole cell lysates.

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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