

ANXA2

Reactivity: Human Mouse Rat

Tested applications: WB IHC IF IP RIP

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200 IP 1:20 - 1:50

RIP 1:20 - 1:50

Calculated MW: 39kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human ANXA2

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

j

Synonym:

ANX2; ANX2L4; CAL1H; LIP2; LPC2; LPC2D; P36; PAP-IV;

Catalog #: A1572

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 302

Isotype: IgG

Swiss Prot: P07355

Purity: Affinity purification

For research use only.

Background:

Annexin A2 (ANXA2), also known as lipocortin II or calpactin-1 heavy chain, is a 36 kDa member of the annexin superfamily that binds phospholipids and other proteins in a calcium-dependent manner via annexin repeats (1). Annexin A2 contains four such repeats through which it mediates protein-protein and protein-lipid interactions (1-4). It forms a constitutive heterotetramer with S100A10, acting as a bridge between the actin cytoskeleton, plasma membrane, and endocytotic vesicle machinery (5-7). Originally identified as a protein inhibitor of phospholipase A2, annexin A2 has subsequently been shown to interact with an array of protein and non-protein partners, including F-actin, spectrin, SNARE complexes, RNA, and virus particles (4,6,8,9). Annexin A2 has also been shown to have receptor-like activity and is detected on the surface of macrophages and vascular endothelial cells where it mediates macrophage activation and Factor Xa signaling, respectively (10-13). Upregulation of annexin A2 at the cell surface is thought to be modulated by phosphorylation at Tyr23 by Src (14-18). Interestingly, phosphorylation at Tyr23 has recently been shown to be required for cell surface expression of annexin A2 where it mediates motility, invasiveness, and overall metastatic potential of certain pancreatic cancer cells (19,20).

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