



Polyclonal Anti-Annexin I (Sephacrose Bead Conjugate)

Catalogue No. PA1006-S

Lot No. 03C01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, mouse, rat. No cross reactivity with other proteins.

Recommended application

Immunoprecipitation(IP)

Immunogen

A synthetic peptide corresponding to a sequence near the C-terminal of human Annexin I, different from the related rat and mouse sequence by two amino acids

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Storage

Store at 4°C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

BACKGROUND

Annexin I, also known as lipocortin I (Lipo1), belongs to the family of annexins. These proteins are thought to control the biosynthesis of the potent mediators of inflammation, prostaglandins and leukotrienes. In two lipocortins (I and II) a short amino-terminal sequence distinct from the core structure has potential regulatory functions which are dependent on its phosphorylation state. The gene in the mouse encodes a protein of 346 amino acid residues. Mouse Lipo1 gene spans about 17 kb and is divided into 13 exons. Annexin I gene, mapped to 9q11-q22, is located on mouse chromosome 19. Annexin I acts through the formyl peptide receptor on human neutrophils. Peptides derived from the unique N-terminal domain of annexin I serve as FPR ligands and trigger different signaling pathways in a dose-dependent manner.

REFERENCE

1. Wallner, B. P.; Mattaliano, R. J.; Hession, C.; Cate, R. L.; Tizard, R.; Sinclair, L. K.; Foeller, C.; Chow, E. P.; Browning, J. L.; Ramachandran, K. L.; Pepinsky, R. B. : Cloning and expression of human lipocortin, a phospholipase A2 inhibitor with potential anti-inflammatory activity. *Nature* 320: 77-81, 1986. .
2. Kovacic RT, Tizard R, Cate RL, Frey AZ, Wallner BP. Correlation of gene and protein structure of rat and human lipocortin I. *Biochemistry*. 1991 Sep 17;30(37):9015-21.
3. Walther, A.; Riehemann, K.; Gerke, V. A novel ligand of the formyl peptide receptor: annexin I regulates neutrophil extravasation by interacting with the FPR. *Molec. Cell* 5: 831-840, 2000.

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