Polyclonal Anti-Annexin I

Catalogue No. PA1006

Lot No. 03C01

Ig type: rabbit IgG

Size: 100μg/vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

Immunocytochemistry

Manufactured by

Boster Biological Technology

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

Purity

Immunogen affinity purified.

Application

Western blot

At 1-2μg/ml with the appropriate system to detect Annexin I in cells and tissues.

Immunohistochemistry(P)

At 1-2μg/ml to detect Annexin I in formalin fixed and paraffin embedded tissues. Digesting the sections is required.

Immunocytochemistry Suitable

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg Thimerosal, 0.05mg NaN_3.

Reconstitution

0.2ml of distilled water will yield a concentration of 500μg/ml.

Storage

At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for longer time.

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Relative detection systems

Antibody can be supported by chemiluminescence kit EK1002 in WB, supported by SA1022 in IH(P) and IC.

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.