

Polyclonal Anti-Annexin V

Catalogue No. PA1008

Lot No. 03A01

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 V, identical to the related rat and mouse sequence

Purity

Immunogen affinity purified.

Application

Western blot

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

Immunohistochemistry(P)

At 1-2µg/ml to detect Annexin V 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 50% glycerol, 0.9mg NaCl, 0.2mg Na₂HPO₄.

Reconstitution

1.2% sodium acetate or neutral PBS. If 0.5ml of PBS is used, the antibody concentration will be 100µg/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.

Optimum Biotech

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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 V also known as endonexin II (ENX2), or placental protein 4 (PP4). Endonexin II is a member of the family of Ca²⁺-dependent phospholipid binding proteins, known as annexins. It binds to the phospholipids that are preferentially located on the cytosolic face of the plasma membrane. It has a relative molecular weight of about 35,000. The gene lies on mouse chromosome 3 in close linkage with the fibroblast growth factor 2 (basic) gene and is syntenic with other genes known to have orthologous counterparts on human chromosome 4q. The PP4 cDNA encoded a protein of 320 amino acid residues. A single mRNA, approximately 1.6 kb long, was found to be expressed in human cell lines and placenta. PP4 is an anticoagulant protein that acts as an indirect inhibitor of the thromboplastin-specific complex, which is involved in the blood coagulation cascade.

REFERENCE

1. Kaplan, R.; Jaye, M.; Burgess, W. H.; Schlaepfer, D. D.; Haigler, H. T. : Cloning and expression of cDNA for human endonexin II, a Ca²⁺ and phospholipid binding protein. *J. Biol. Chem.* 263
2. Rodriguez-Garcia, M. I.; Kozak, C. A.; Morgan, R. O.; Fernandez, M. P. : Mouse annexin V chromosomal localization, cDNA sequence conservation, and molecular evolution. *Genomics* 31: 151-157, 1996.
3. Grundmann, U.; Abel, K.-J.; Bohn, H.; Lobermann, H.; Lottspeich, F.; Kupper, H. : Characterization of cDNA encoding human placental anticoagulant protein (PP4): homology with the lipocortin family. *Proc. Nat. Acad. Sci.* 85: 3708-3712, 1988.