



## Polyclonal Anti-Annexin V (Sephadex Bead Conjugate)

**Catalogue No.** PA1008-S

**Immunogen**

A synthetic peptide corresponding to a sequence near the C-terminal of human Annexin V, identical to the related rat and mouse sequence

**Lot No.** 03A01

**Ig type:** rabbit

**Purification**

Immunogen affinity purified.

**IgG Size:** 100µg/vial

**Formulation**

50% slurry in PBS pH 7.2 with 0.01mg NaN<sub>3</sub>a<sub>3</sub> preservative.

**Specificity**

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

**Storage**

Store at 4°C for frequent use.

**Recommended application**

*Immunoprecipitation(IP)*

**Description:**

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

### BACKGROUND

Annexin V also known as endonexin II (ENX2), or placental protein 4 (PP4). Endonexin II is a member of the family of Ca(2+)-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 encodes 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 Ca(2+) 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. Natl. Acad. Sci. 85: 3708-3712, 1988.

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