



Product Information Sheet

Polyclonal Anti-Annexin V (Magnetic Bead conjugate)

Catalogue No. PA1008 -M

Lot No. 03A01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

immunoprecipitation

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.

Contents

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN₃.

Storage

Store at 4°C for frequent use.

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

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 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 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. Nat. Acad. Sci.* 85: 3708-3712, 1988.

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