

## Product Information Sheet

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### Polyclonal Anti-Annexin IV

**Catalogue No.** PA1007

**Lot No.** 03L01

**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

**Optimum Biotech**

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**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminal of human Annexin IV, different from the related rat and mouse sequence by single amino acid.

**Purity**

Immunogen affinity purified.

**Application**

*Western blot*

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

*Immunohistochemistry(P)*

At 1-2µg/ml to detect Annexin IV 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 Na<sub>2</sub>HPO<sub>4</sub>.

**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.

**Relative detection systems**

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

## **BACKGROUND**

Annexin IV, also known as placental anticoagulant protein II, or zymogen granule membrane-associated protein, 36-KD (ZAP36), is one of the family of calcium-dependent phospholipid-binding proteins whose normal function is uncertain. Annexin IV has 45 to 59% identity with other members of the annexin family. Annexin IV gene spans 18 to 56 kb. And it is located on mouse chromosome 6 in a region of conserved synteny with human chromosome 2. Rat annexin IV is ubiquitously expressed in epithelial tissues. Zap36 associated with zymogen granule membranes in dog and rat pancreas. Human annexin IV gene is mapped to chromosome 2p13.

## **REFERENCE**

1. Tait, J. F.; Smith, C.; Frankenberry, D. A.; Miao, C. H.; Adler, D. A.; Disteché, C. M. Chromosomal mapping of the human annexin IV (ANX4) gene. *Genomics* 12: 313-318, 1992.
2. Ponnampalam AP, Rogers PA. Cyclic changes and hormonal regulation of annexin IV mRNA and protein in human endometrium. *Mol Hum Reprod.* 2006 Nov;12(11):661-9. Epub 2006 Sep 5
3. Zschornig O, Opitz F, Muller M. Annexin A4 binding to anionic phospholipid vesicles modulated by pH and calcium. *Eur Biophys J.* 2007 Apr;36(4-5):415-24. Epub 2007 Mar 16.