

Datasheet for ABIN3043239

## anti-Annexin IV antibody (N-Term)



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1 Publication

### Overview

Quantity:	100 µg
Target:	Annexin IV (ANXA4)
Binding Specificity:	AA 7-21, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Annexin IV antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Purpose:	Rabbit IgG polyclonal antibody for Annexin A4(ANXA4) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human Annexin IV(7-21aa TVKAASGFNAMEDAQ), different from the related mouse and rat sequences by one amino acid.
Sequence:	TVKAASGFNA MEDAQ
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Annexin A4(ANXA4) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: annexin A4

## Product Details

Protein Name: Annexin A4

Purification: Immunogen affinity purified.

## Target Details

Target: Annexin IV (ANXA4)

Alternative Name: ANXA4 ([ANXA4 Products](#))

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 syntenic 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.

Synonyms: 35 beta calcimedin antibody|35-beta calcimedin antibody|AIV antibody|Annexin 4 antibody|Annexin A4 antibody|Annexin IV(placental anticoagulant protein II) antibody|Annexin IV antibody|Annexin IV placental anticoagulant protein II antibody|Annexin-4 antibody|AnnexinA4 antibody|AnnexinIV antibody|ANX 4 antibody|ANX A4 antibody|ANX4 antibody|ANXA 4 antibody|ANXA4 antibody|ANXA4 protein antibody|ANXA4\_HUMAN antibody|Carbohydrate binding protein P33/P41 antibody|Carbohydrate-binding protein p33/p41 antibody|Chromobindin 4 antibody|Chromobindin-4 antibody|Chromobindin4 antibody|DKFZp686H02120 antibody|Endonexin I antibody|EndonexinI antibody|Lipocortin IV antibody|LipocortinIV antibody|MGC75105 antibody|OTTHUMP00000160052 antibody|OTTHUMP00000202207 antibody|P32.5 antibody|P33/41 antibody|PAP II antibody|PAP-II antibody|PAPII antibody|PIG 28 antibody|PIG28 antibody|Placental anticoagulant protein II antibody|PP4 X antibody|PP4-X antibody|PP4X antibody|Proliferation inducing gene 28 antibody|Proliferation inducing protein 28 antibody|Protein II antibody|Xanx-4 antibody|ZAP 36 antibody|ZAP36 antibody

UniProt: [P09525](#)

## Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for

## Application Details

ANXA4 is approximately 0.5 ng/lane under reducing conditions.

IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,  
Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for  
20 mins is required for the staining of formalin/paraffin sections.

Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be  
fit for the product based on sequence similarities. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by  
ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Thimerosal, 0.05 mg  
Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND  
HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: 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 a longer time. Avoid repeated freezing  
and thawing.

Expiry Date: 12 months

## Publications

Product cited in: Jia, Ma, Lv, Ma, Xu, Yang, Tian, Wang, Sun, Xu, Fu, Zhao: "Oestrogen and parathyroid hormone  
alleviate lumbar intervertebral disc degeneration in ovariectomized rats and enhance Wnt/β-  
catenin pathway activity." in: **Scientific reports**, Vol. 6, pp. 27521, (2018) ([PubMed](#)).

Jia, Jiang, Liu, Wang, Zhu, Zhu, Liu, Zhong, Xie, Huang, Jia, Li, Liu, Zuo, Cheng, Dai, Ren: "Effects of three-dimensional collagen scaffolds on the expression profiles and biological functions of glioma cells." in: **International journal of oncology**, Vol. 52, Issue 6, pp. 1787-1800, (2018) ([PubMed](#)).

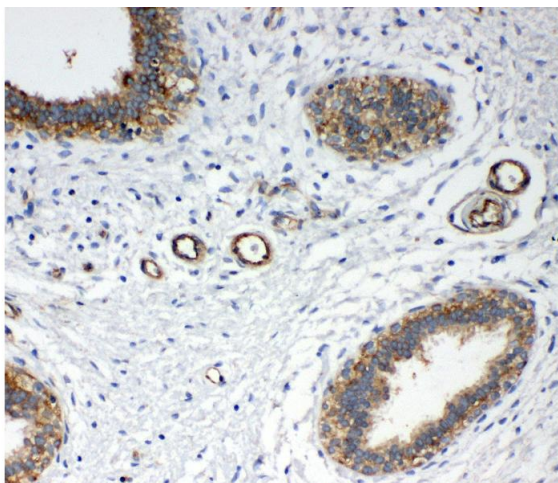
Ding, Teng, Fan, Zhao: "The Association Between Modic Changes of Lumbar Endplates and Spontaneous Absorption of Herniated Intervertebral Discs." in: **Cell biochemistry and biophysics**, Vol. 71, Issue 3, pp. 1357-63, (2016) ([PubMed](#)).

Yan, Tian, Wang, Cheng, Xu, Song, Zhang, Zhang: "Age dependent changes in cartilage matrix, subchondral bone mass, and estradiol levels in blood serum, in naturally occurring osteoarthritis in Guinea pigs." in: **International journal of molecular sciences**, Vol. 15, Issue 8, pp. 13578-95, (2015) ([PubMed](#)).

Xu, Zhang, Xu, Guo, Wang, Wu, Wang, Luo, Zhou: "Antiphotoreaging effect of conditioned medium of dedifferentiated adipocytes on skin in vivo and in vitro: a mechanistic study." in: **Stem cells and development**, Vol. 24, Issue 9, pp. 1096-111, (2015) ([PubMed](#)).

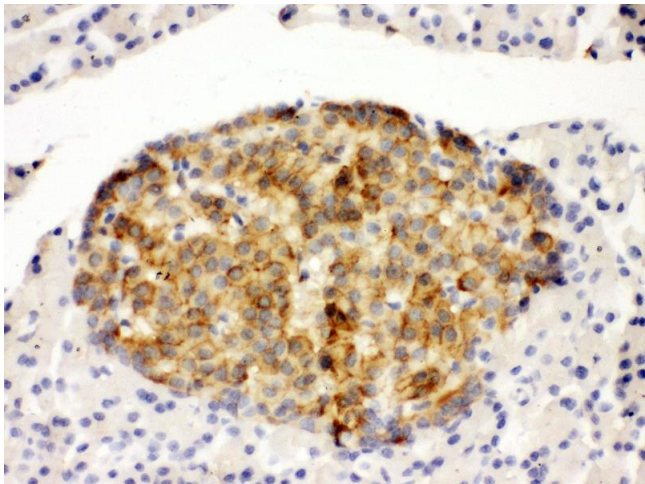
## Images

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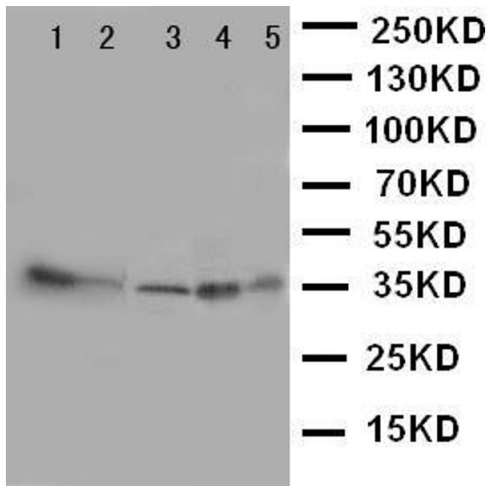
### Immunohistochemistry

**Image 1.** Anti-Annexin IV antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue



#### Immunohistochemistry

**Image 2.** Anti-Annexin IV antibody, IHC(P) IHC(P): Rat Pancreas Tissue



#### Western Blotting

**Image 3.** Anti-Annexin IV antibody, Western blotting Lane 1: Human Placenta Tissue Lysate Lane 2: Rat Liver Tissue Lysate Lane 3: 293T Cell Lysate Lane 4: HEPA Cell Lysate Lane 5: NIH3T3 Cell Lysate