



# Annexin II Polyclonal Antibody

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>         | BYab-03702                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Reactivity</b>         | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Applications</b>       | WB;IHC;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>          | ANXA2                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Name</b>       | Annexin A2                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human Annexin II. AA range:88-137                                                                                                                                                                                                                                                                                                                                              |
| <b>Specificity</b>        | Annexin II Polyclonal Antibody detects endogenous levels of Annexin II protein.                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                              |
| <b>Dilution</b>           | WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration</b>      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage Stability</b>  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>           | ANXA2; ANX2; ANX2L4; CAL1H; LPC2D; Annexin A2; Annexin II; Annexin-2; Calpactin I heavy chain; Calpactin-1 heavy chain; Chromobindin-8; Lipocortin II; Placental anticoagulant protein IV; PAP-IV; Protein I; p36                                                                                                                                                                                                                                  |
| <b>Observed Band</b>      | 38kD                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Cell Pathway</b>       | Secreted, extracellular space, extracellular matrix, basement membrane . Melanosome . In the lamina beneath the plasma membrane. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Translocated from the cytoplasm to the cell surface through a Golgi-independent mechanism.                                                                                                                                      |
| <b>Tissue Specificity</b> | Brain,Colon,Colon adenocarcinoma,Epithelium,Osteosarcoma,Pancreas,Placenta,Prostate,Skin,Te                                                                                                                                                                                                                                                                                                                                                        |
| <b>Function</b>           | domain:A pair of annexin repeats may form one binding site for calcium and phospholipid.,function:Calcium-regulated membrane-binding protein whose affinity for calcium is greatly enhanced by anionic phospholipids. It binds two calcium ions with high affinity. May be involved in heat-stress response.,miscellaneous:It may cross-link plasma membrane phospholipids with actin and the cytoskeleton and be involved with exocytosis.,online |

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information:Red velvet - Issue 86 of September 2007,PTM:Phosphorylation of Tyr-24 enhances heat stress-induced translocation to the cell surface.,similarity:Belongs to the annexin family.,similarity:Contains 4 annexin repeats.,subcellular location:In the lamina beneath the plasma membrane. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Translocated from the cytoplasm to the cell surface through a Golgi-independent mechanism.,s

**Background**

This gene encodes a member of the annexin family. Members of this calcium-dependent phospholipid-binding protein family play a role in the regulation of cellular growth and in signal transduction pathways. This protein functions as an autocrine factor which heightens osteoclast formation and bone resorption. This gene has three pseudogenes located on chromosomes 4, 9 and 10, respectively. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],

**matters needing attention**

Avoid repeated freezing and thawing!

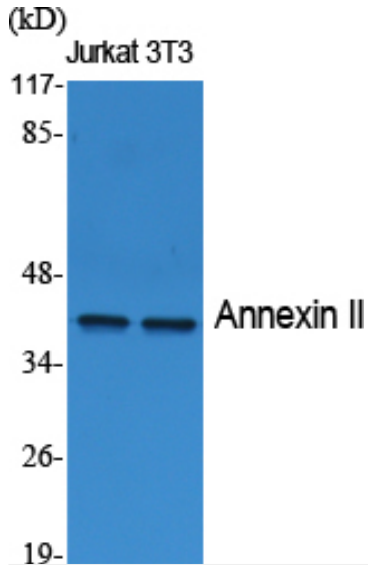
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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## Products Images



Western Blot analysis of various cells using Annexin II  
Polyclonal Antibody diluted at 1:2000



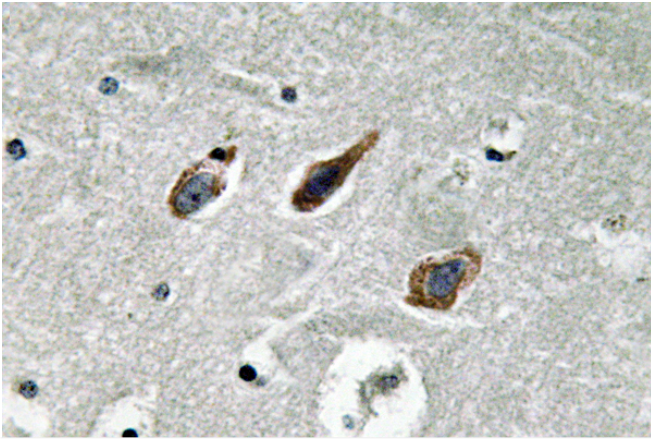
Western Blot analysis of HeLa cells using Annexin II  
Polyclonal Antibody diluted at 1:2000

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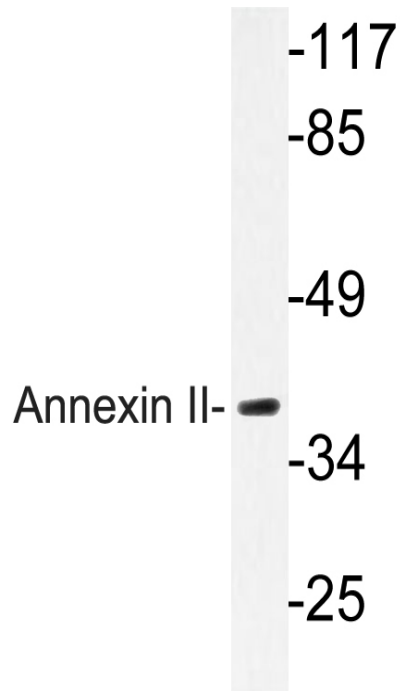
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Immunohistochemistry analysis of Annexin II antibody in paraffin-embedded human brain tissue.



Western blot analysis of lysate from HeLa cells, using Annexin II antibody.