

## Rabbit anti-Human PKN3 Polyclonal Antibody | anti-PKN3 antibody

Anti-PKN3 Antibody Picoband

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                          |
|-----------|--------|------------|-------------------------------------------------------|
| AAA127609 | Rabbit | Human      | ELISA, Flow Cytometry, Functional Assay, Western Blot |

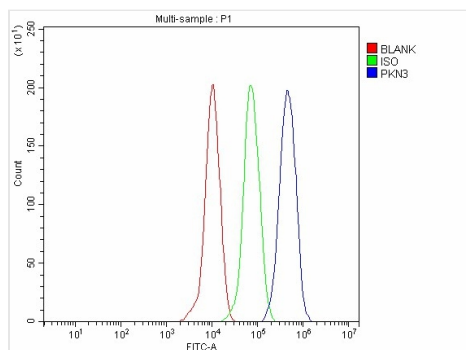
### PRODUCT SYNONYMS

PKN3; Polyclonal Antibody; Anti-PKN3 Antibody Picoband; anti-PKN3 antibody

### PRODUCT SPECIFICATIONS

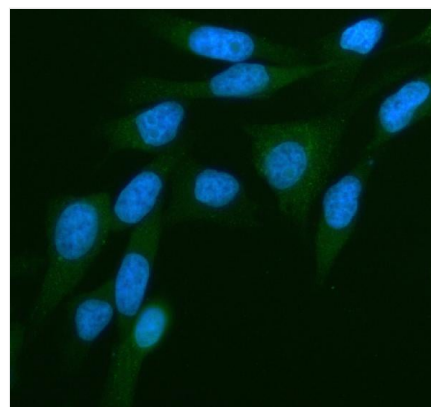
|                                                |                                                                                                                                                                                                                       |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                |
| Reactivity                                     | Human                                                                                                                                                                                                                 |
| Clonality                                      | Polyclonal                                                                                                                                                                                                            |
| Purity/Purification                            | Immunogen affinity purified.                                                                                                                                                                                          |
| Form/Format                                    | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                |
| Applicable Applications for anti-PKN3 antibody | ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                   |
| Immunogen                                      | E coli-derived human PKN3 recombinant protein (Position: E2-P889). Human PKN3 shares 83.7% amino acid (aa) sequence identity with mouse PKN3.                                                                         |
| Reconstitution                                 | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                              |
| Preparation and Storage                        | At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing. |

### IMAGES



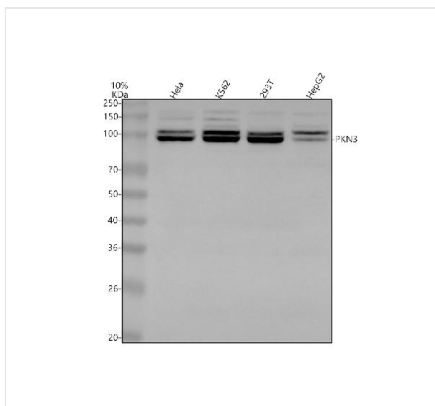
#### FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of THP-1 cells using anti-PKN3 antibody (AAA127609). Overlay histogram showing THP-1 cells stained with AAA127609 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PKN3 Antibody (AAA127609, 1ug/1x10<sup>6</sup> cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



#### IF (Immunofluorescence)

Figure 2. IF analysis of PKN3 using anti-PKN3 antibody (AAA127609). PKN3 was detected in an immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-PKN3 Antibody (AAA127609) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



#### WB (Western Blot)

Figure 1. Western blot analysis of PKN3 using anti-PKN3 antibody (AAA127609). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human K562 whole cell lysates, Lane 3: human 293T whole cell lysates, Lane 4: human HepG2 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PKN3 antigen affinity purified polyclonal antibody (#AAA127609) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PKN3 at approximately 99 kDa. The expected band size for PKN3 is at 99 kDa.

#### ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-PKN3 antibody</b> | The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Product Categories/Family for anti-PKN3 antibody</b>   | <a href="#">Primary Antibodies</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>References</b>                                         | 1. Hartz, P. A. Personal Communication. Baltimore, Md. 1/23/2007. 2. Leenders, F., Mopert, K., Schmiedeknecht, A., Santel, A., Czauderna, F., Aleku, M., Penschuck, S., Dames, S., Sternberger, M., Rohl, T., Wellmann, A., Arnold, W., Giese, K., Kaufmann, J., Klippel, A. PKN3 is required for malignant prostate cell growth downstream of activated PI 3-kinase. EMBO J. 23: 3303-3313, 2004. 3. Oishi, K., Mukai, H., Shibata, H., Takahashi, M., Ona, Y. Identification and characterization of PKN-beta, a novel isoform of protein kinase PKN: expression and arachidonic acid dependency are different from those of PKN-alpha. Biochem. Biophys. Res. Commun. 261: 808-814, 1999. |

#### NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                |
|-----------------------------------------|------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">74749130</a>                                                                       |
| <b>NCBI GeneID</b>                      | <a href="#">29941</a>                                                                          |
| <b>UniProt Accession #</b>              | <a href="#">Q6P5Z2</a> ; <a href="#">Q9UM03</a>                                                |
| <b>Molecular Weight</b>                 | 889                                                                                            |
| <b>NCBI Official Full Name</b>          | Serine/threonine-protein kinase N3                                                             |
| <b>NCBI Official Synonym Full Names</b> | protein kinase N3                                                                              |
| <b>NCBI Official Symbol</b>             | PKN3                                                                                           |
| <b>NCBI Protein Information</b>         | serine/threonine-protein kinase N3; protein kinase PKN-beta; protein-kinase C-related kinase 3 |
| <b>UniProt Protein Name</b>             | Serine/threonine-protein kinase N3                                                             |
| <b>UniProt Gene Name</b>                | <b>PKN3</b>                                                                                    |

|                            |            |
|----------------------------|------------|
| UniProt Synonym Gene Names | PKNBETA    |
| UniProt Entry Name         | PKN3_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pkn3-antibody-flow-cytometry-western-blot-elisa/127609>