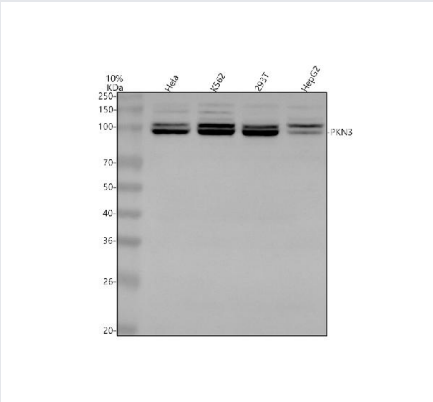
PKN3 Antibody – Rabbit Polyclonal

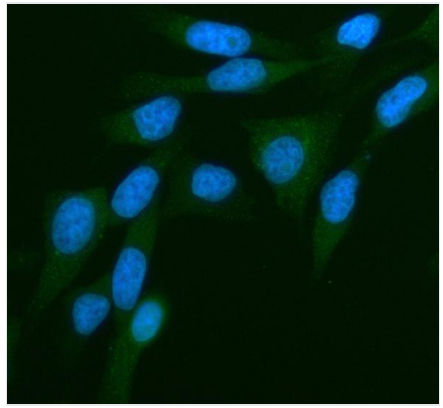
PRODUCT OVERVIEW

Product Name	PKN3, Polyclonal Antibody
Full Product Name	Anti-PKN3 Antibody Picoband
Product Gene Name	anti-PKN3 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
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.
Molecular Weight	889
OMIM	610714
3D Structure	ModBase 3D Structure for Q6P5Z2
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.
Product Categories/Family for anti-PKN3 antibody	Primary Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-PKN3 antibody	Western Blot (WB), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-PKN3 antibody	WB: 0.25-0.5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-PKN3 antibody	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.
Product References and Citations for anti-PKN3 antibody	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.
Other Notes	Small volumes of anti-PKN3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PKN3 purchase	MBS1759060 is an antibody targeting PKN3. Also known as Anti-PKN3 Antibody Picoband. Reactive in Human. Host: Rabbit.



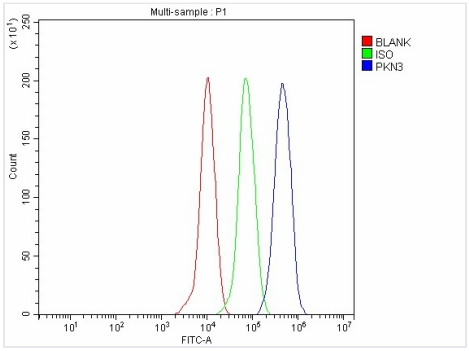
Western Blot (WB) of anti-PKN3 antibody

Figure 1. Western blot analysis of PKN3 using anti-PKN3 antibody (MBS1759060).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 (#MBS1759060) 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 (#MBS176460) 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.



Immunofluorescence (IF) of anti-PKN3 antibody

Figure 2. IF analysis of PKN3 using anti-PKN3 antibody (MBS1759060).PKN3 was detected in an immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (#MBS176582) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-PKN3 Antibody (MBS1759060) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG (MBS177405) 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.



Flow Cytometry (FC/FACS) of anti-PKN3 antibody

Figure 3. Flow Cytometry analysis of THP-1 cells using anti-PKN3 antibody (MBS1759060).Overlay histogram showing THP-1 cells stained with MBS1759060 (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 (MBS1759060, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PKN3. It may not necessarily be applicable to this product.

NCBI GI #	74749130
NCBI GeneID	29941
NCBI Accession #	Q6P5Z2.1
UniProt Primary Accession #	Q6P5Z2
UniProt Secondary Accession #	Q9UM03

UniProt Related Accession #	Q6P5Z2
NCBI Official Full Name	Serine/threonine-protein kinase N3
NCBI Official Synonym Full Names	protein kinase N3
NCBI Official Symbol	PKN3
UniProt Protein Name	Serine/threonine-protein kinase N3
UniProt Synonym Protein Names	Protein kinase PKN-beta; Protein-kinase C-related kinase 3
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	PKN3
UniProt Synonym Gene Names	PKNBETA
UniProt Entry Name	PKN3_HUMAN
NCBI Protein Information	serine/threonine-protein kinase N3; protein kinase PKN-beta; protein-kinase C-related kinase 3
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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