

Rabbit anti-Human PRTN3 Polyclonal Antibody | anti-PRTN3 antibody

Anti-PRTN3 Antibody Picoband

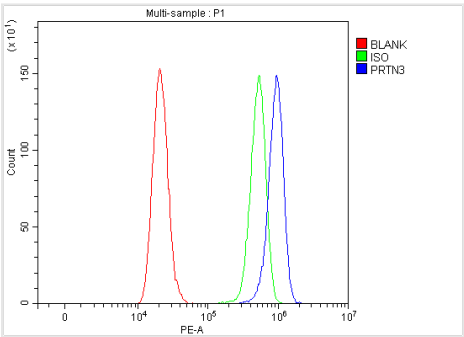
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127201	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PRTN3; Polyclonal Antibody; Anti-PRTN3 Antibody Picoband; AF4/FMR2 family member 4; ALL1-fused gene from chromosome 5q31 protein; Protein AF-5q31; Major CDK9 elongation factor-associated protein; AFF4; AF5Q31; MCEF; HSPC092; anti-PRTN3 antibody

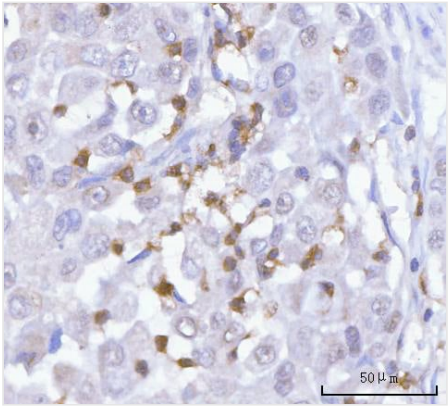
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitously expressed. Strongly Expressed in heart, placenta, skeletal muscle, pancreas and to a lower extent in brain.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PRTN3 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human PRTN3 recombinant protein (Position: A23-D241).
Subcellular Localization	Nucleus, Associates to transcriptionally active chromatin but not at snRNA genes.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Key component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA. In the SEC complex, AFF4 acts as a central scaffold that recruits other factors through interactions with ELL proteins (ELL, ELL2 or ELL3) and the P-TEFb complex. In case of infection by HIV-1 virus, the SEC complex is recruited by the viral Tat protein to stimulate viral gene expression.
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.



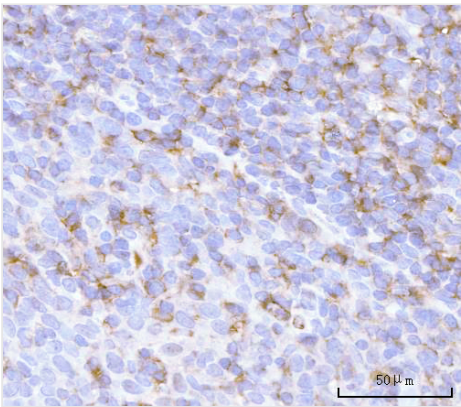
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of THP-1 cells using anti-PRTN3 antibody (AAA127201).Overlay histogram showing THP-1 cells stained with AAA127201 (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-PRTN3 Antibody (AAA127201, 1ug/1x106 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/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



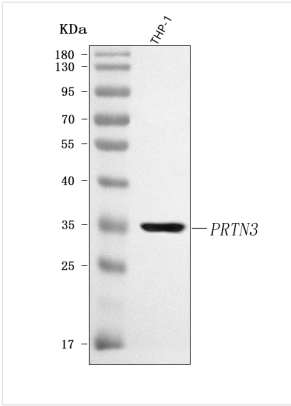
IHC (Immunohiostchemistry)

Figure 2. IHC analysis of PRTN3 using anti-PRTN3 antibody (AAA127201).PRTN3 was detected in a paraffin-embedded section of human lung adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PRTN3 Antibody (AAA127201) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemisry)

Figure 3. IHC analysis of PRTN3 using anti-PRTN3 antibody (AAA127201).PRTN3 was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PRTN3 Antibody (AAA127201) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of PRTN3 using anti-PRTN3 antibody (AAA127201).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 THP-1 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-PRTN3 antigen affinity purified polyclonal antibody (#AAA127201) 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 PRTN3 at approximately 32 kDa. The expected band size for PRTN3 is at 28,32 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PRTN3 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 Categories/Family for anti-PRTN3 antibody	Primary Antibodies; Epigenetics and Nuclear Signaling; Transcription; Cell Biology; Transcription Factors; Cell Cycle

References	1. Belaouaj, A., Walsh, B. C., Jenkins, N. A., Copeland, N. G., Shapiro, S. D. Characterization of the mouse neutrophil elastase gene and localization to chromosome 10. Mammalian Genome 8: 5-8, 1997. 2. Campanelli, D., Melchior, M., Fu, Y., Nakata, M., Shuman, H., Nathan, C., Gabay, J. E. Cloning of cDNA for proteinase 3: a serine protease, antibiotic, and autoantigen from human neutrophils. J. Exp. Med. 172: 1709-1715, 1990. 3. Davies, D. J., Moran, J. E., Niall, J. F., Ryan, G. B. Segmental necrotising glomerulonephritis with antineutrophil antibody: possible arbovirus aetiology. Brit. Med. J. 285: 606 only, 1982.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	71361688
NCBI GeneID	5657
NCBI Accession #	NP_002768.3
NCBI GenBank Nucleotide #	NM_002777.3
UniProt Accession #	P24158; P15637; P18078; Q4VB08; Q4VB09; Q6LBM7; Q6LBN2; Q9UD25; Q9UQD8
Molecular Weight	27,807 Da
NCBI Official Full Name	myeloblastin
NCBI Official Synonym Full Names	proteinase 3
NCBI Official Symbol	PRTN3
NCBI Official Synonym Symbols	MBN; MBT; NP4; P29; PR3; ACPA; AGP7; NP-4; PR-3; CANCA; C-ANCA
NCBI Protein Information	myeloblastin; C-ANCA antigen; wegenger autoantigen; leukocyte proteinase 3; neutrophil proteinase 4; azurophil granule protein 7; serine proteinase, neutrophil; Wegener granulomatosis autoantigen
UniProt Protein Name	Myeloblastin
UniProt Gene Name	PRTN3
UniProt Synonym Gene Names	MBN; PR-3; PR3; NP-4
UniProt Entry Name	PRTN3_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.