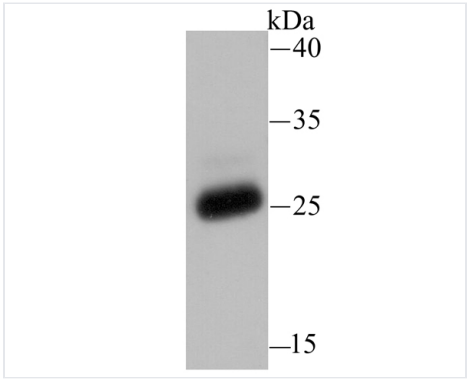
PRTN3 Antibody – Rabbit Polyclonal

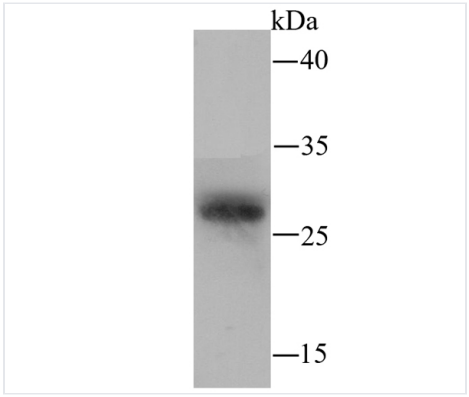
PRODUCT OVERVIEW

Product Name	PRTN3, Polyclonal Antibody
Full Product Name	PRTN3 Antibody
Product Gene Name	anti-PRTN3 antibody
Product Synonym Names	ACPA antibody; AGP 7 antibody; AGP7 antibody; AGP7 serine proteinase antibody; Azurophil Granule Protein 7 antibody; C ANCA antibody; C ANCA antigen antibody; C-ANCA antigen antibody; CANCA antibody; EC 3.4.21.76 antibody; Leukocyte proteinase 3 antibody; MBN antibody; MBT antibody; MBT WEGENER AUTOANTIGEN antibody; Myeloblastin antibody; Neutrophil proteinase 4 antibody; NP 4 antibody; NP-4 antibody; NP4 antibody; P29 antibody; PR 3 antibody; PR-3 antibody; PR3 antibody; Proteinase 3 antibody; Proteinase3 antibody; PRTN 3 antibody; Prtn3 antibody; PRTN3_HUMAN antibody; Serine proteinase neutrophil Wegener granulomatosis autoantigen antibody; Serine proteinase; neutrophil antibody; Wegener autoantigen antibody; Wegener granulomatosis autoantigen antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	1*TBS (pH7.4), 0.5%BSA, 50%Glycerol. Preservative: 0.05% Sodium Azide.
Purity/Purification	ProA affinity purified
Preparation and Storage	Store at -20 degree C.
Molecular Weight	27,807 Da
OMIM	177020
3D Structure	ModBase 3D Structure for P24158
Immunogen	Recombinant protein
Conjugation	Unconjugated
Product Categories/Family for anti-PRTN3 antibody	Total protein Ab
Applications Tested/Suitable for anti-PRTN3 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC)
Application Notes for anti-PRTN3 antibody	WB: 1:500 IHC: 1:100-1:500 ICC: 1:50-1:200
Related Product Information for anti-PRTN3 antibody	The major features of Wegener granulomatosis are necrotizing granulomatous lesions, which most often affect the upper and lower airways and are associated with vasculitis, necrotizing glomerulonephritis and pulmonary capillaritis. The antigen responsible for this disease is Proteinase 3 (PR3, P29 or myeloblastin), which is one of the antibiotic proteins of neutrophilic granules belonging to the serine protease family. It is closely related to two others: Neutrophil Elastase and azurocidin. All three genes are expressed coordinately and their protein products are packaged together into azurophil granules during neutrophil differentiation. PR3 is a neutrophil protein which is able to cleave elastin and is involved in proliferation of human leukemia cells. PR3 is expressed specifically in immature myeloid cells and is a G-CSF-responsive protein critical to factor-independent growth. The genes for all three of the related serine protease family members are located in a cluster on the tip of the short arm of human chromosome 19.

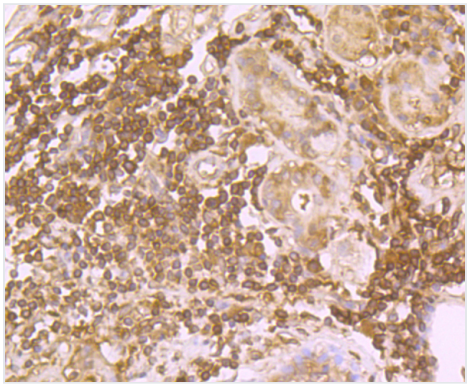
Other Notes	Small volumes of anti-PRTN3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PRTN3 purchase	MBS9435362 is an antibody targeting PRTN3. Also known as PRTN3 Antibody. Reactive in Human, Mouse. Host: Rabbit.



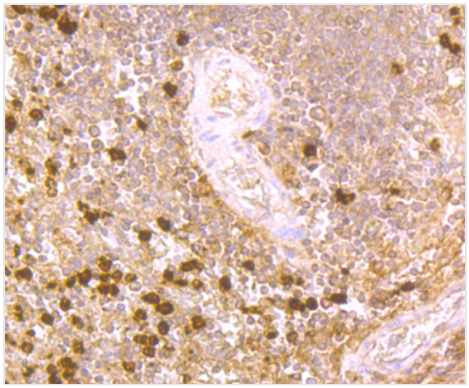
Western Blot (WB) of anti-PRTN3 antibody
Western blot analysis of PRTN3 on U937 using anti-PRTN3 antibody at 1/500 dilution.



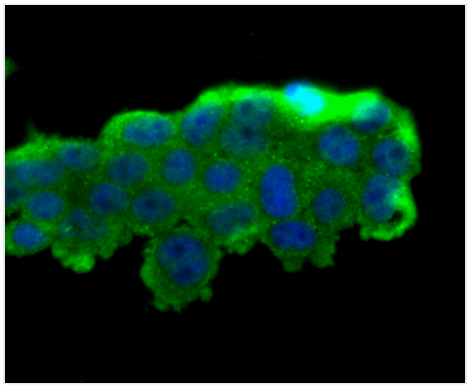
Western Blot (WB) of anti-PRTN3 antibody
Western blot analysis of PRTN3 on mouse marrow lysate using anti-PRTN3 antibody at 1/100 dilution.



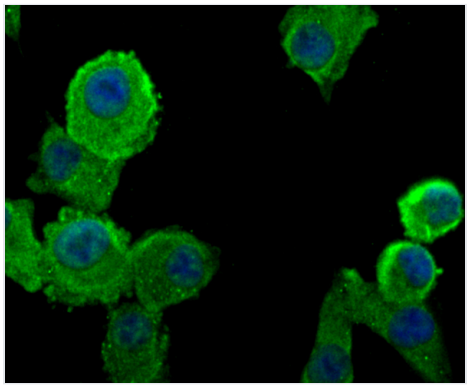
Immunohistochemistry (IHC) of anti-PRTN3 antibody
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-PRTN3 antibody. Counter stained with hematoxylin.



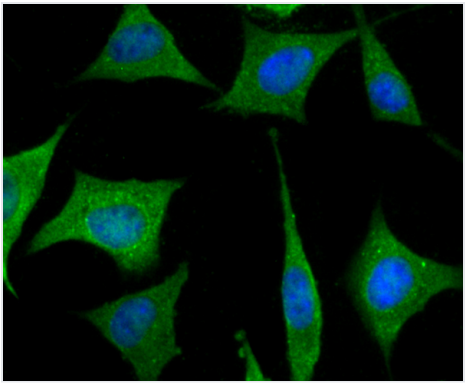
Immunohistochemistry (IHC) of anti-PRTN3 antibody
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-PRTN3 antibody. Counter stained with hematoxylin.



Immunocytochemistry (ICC) of anti-PRTN3 antibody
ICC staining PRTN3 in 293T cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Immunocytochemistry (ICC) of anti-PRTN3 antibody
ICC staining PRTN3 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Immunocytochemistry (ICC) of anti-PRTN3 antibody
ICC staining PRTN3 in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue).
Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRTN3. It may not necessarily be applicable to this product.

NCBI GI #	71361688
NCBI GeneID	5657
NCBI Accession #	NP_002768.3
UniProt Primary Accession #	P24158
UniProt Secondary Accession #	P15637; P18078; Q4VB08; Q4VB09; Q6LBM7; Q6LBN2; Q9UD25; Q9UQD8
UniProt Related Accession #	P24158
GenBank Nucleotide #	NM_002777.3
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
UniProt Protein Name	Myeloblastin
UniProt Synonym Protein Names	AGP7; C-ANCA antigen; Leukocyte proteinase 3; PR-3; PR3; Neutrophil proteinase 4; NP-4; P29; Wegener autoantigen
Protein Family	Myeloblastin
UniProt Gene Name	PRTN3
UniProt Synonym Gene Names	MBN; PR-3; PR3; NP-4
UniProt Entry Name	PRTN3_HUMAN
NCBI Protein Information	myeloblastin; C-ANCA antigen; wegener autoantigen; leukocyte proteinase 3; neutrophil proteinase 4; azurophil granule protein 7; serine proteinase, neutrophil; Wegener granulomatosis autoantigen

UniProt Comments for PRTN3	PRTN3: Polymorphonuclear leukocyte serine protease that degrades elastin, fibronectin, laminin, vitronectin, and collagen types I, III, and IV (in vitro) and causes emphysema when administered by tracheal insufflation to hamsters. Belongs to the peptidase S1 family. Elastase subfamily. Protein type: Protease; Cell cycle regulation; EC 3.4.21.76 Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: extracellular matrix; extracellular space; plasma membrane; cytosol Molecular Function: enzyme binding; serine-type peptidase activity; serine-type endopeptidase activity Biological Process: negative regulation of phagocytosis; collagen catabolic process; positive regulation of cell proliferation; blood coagulation; proteolysis
Research Articles on PRTN3	**1.** The presence of ANCA in the bile of patients with primary sclerosing cholangitis (PSC) is a novel finding and highly suggestive of PSC. Biliary IgG ANCA correlates with the severity of bile duct strictures.
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