

Rabbit PR3 Polyclonal Antibody | anti-PRTN3 antibody

PR3 Antibody

CATALOG # AAA329001	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA
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PRODUCT SYNONYMS

PR3; Polyclonal Antibody; PR3 Antibody; ACPA; AGP 7; AGP7; AGP7 serine proteinase; Azurophil Granule Protein 7; C ANCA; C ANCA antigen; C-ANCA antigen; CANCA; EC 3.4.21.76; Leukocyte proteinase 3; MBN; MBT; MBT WEGENER AUTOANTIGEN; Myeloblastin; Neutrophil proteinase 4; NP 4; NP-4; NP4; P29; PR 3; PR-3; Proteinase 3; Proteinase3; PRTN 3; Prtn3; PRTN3_HUMAN; Serine proteinase neutrophil Wegener granulomatosis autoantigen; Serine proteinase; neutrophil; Wegener autoantigen; Wegener granulomatosis autoantigen; anti-PRTN3 antibody

PRODUCT SPECIFICATIONS

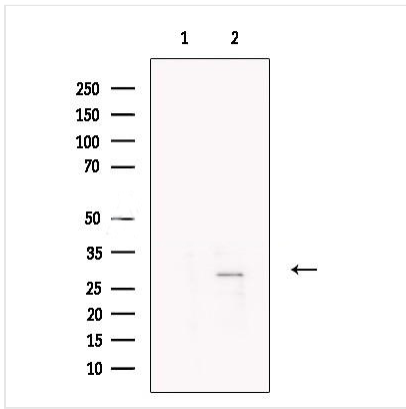
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PR3 Antibody detects endogenous levels of total PR3.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	256
Applicable Applications for anti-PRTN3 antibody	ELISA
Immunogen	A synthesized peptide derived from human PR3, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemisry)
AAA329001 at 1/100 staining Mouse heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohiostchemistry)
AAA329001 at 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from Mouse brain, using PR3 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PRTN3 antibody	Function: Serine protease that degrades elastin, fibronectin, laminin, vitronectin, and collagen types I, III, and IV (in vitro) (PubMed:3198760, PubMed:2033050, PubMed:28240246). By cleaving and activating receptor F2RL1/PAR-2, enhances endothelial cell barrier function and thus vascular integrity during neutrophil transendothelial migration (PubMed:23202369). May play a role in neutrophil transendothelial migration, probably when associated with CD177 (PubMed:22266279). Subcellular Location: Cytoplasmic granule. Secreted. Cell membrane>Peripheral membrane protein>Extracellular side. Membrane raft>Peripheral membrane protein>Extracellular side. Note: Localizes predominantly to azurophil granules (primary secretory granules) in neutrophils (PubMed:2033050, PubMed:3198760, PubMed:7897245, PubMed:18462208). Secreted upon neutrophil stimulation by TNF-alpha, lipopolysaccharide (LPS), fMLP and CXCL8/IL8 or during neutrophil transmigration (PubMed:22266279, PubMed:28240246). Following secretion tethered to the cell membrane by CD177 (PubMed:18462208, PubMed:22266279). Tissue Specificity: Expressed in polymorphonuclear leukocytes (at protein level) (PubMed:2033050, PubMed:7897245, PubMed:3198760). Expressed in neutrophils (at protein level) (PubMed:28240246, PubMed:18462208, PubMed:21193407, PubMed:22266279, PubMed:17244676). Expressed in differentiating neutrophils (PubMed:18462208). Subunit Structure: May form dimers (PubMed:28240246). Interacts with CD177; the interaction tethers PRTN3 to the cell surface; the interaction is direct (PubMed:17244676, PubMed:28240246). Interacts with SERPINB1 (PubMed:30692621). Similarity: Belongs to the peptidase S1 family. Elastase subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	71361688
NCBI GeneID	5657
NCBI Accession #	NP_002768.3
NCBI GenBank Nucleotide #	NP_002768.3
UniProt Accession #	P24158
Molecular Weight	Observed Molecular Weight: (Observed)27kD. Predicted Molecular Weight: (Calculated)28kDa.
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
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.