

Mouse anti-Human Proteinase 3 Monoclonal Antibody | anti-PRTN3 antibody

Proteinase 3, Human, mAb PR3-G2, FITC

CATALOG # AAA77765	HOST Mouse	REACTIVITY Human
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PRODUCT SYNONYMS

Proteinase 3; Monoclonal Antibody; Human; mAb PR3-G2; FITC; anti-PRTN3 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Purity/Purification	Protein G
Form/Format	0.2 um filtered in PBS +1% BSA +0.02% NaN3
Sequence Length	254
Conjugate	FITC
Preparation and Storage	Product should be stored at 4 degree C. Under recommended storage conditions, product is stable for one year.

IMAGES

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes	•			•		•		•
No					•		•	
N.D.		•	•				•	

N.D. = Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immune Assay; IP = Immune Precipitation; W = Western blot
 Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting dilution is 1:50.
 • FS: Antibody PR3G-2 does not inhibit biological PR3 activity.

Application Data

Application Notes

ADDITIONAL INFORMATION

Related Product Information for anti-PRTN3 antibody

Product Description: Monoclonal antibody PR3G-2 reacts with human proteinase 3 (PR3), a 30 kDa protein. PR3 is a major antigen recognized by autoantibodies directed against cytoplasmic proteins of neutrophilic granulocytes and monocytes (called anti-neutrophil cytoplasmic autoantibodies (ANCA)). ANCA are able to activate primed neutrophils to produce oxygen radicals and release lytic enzymes, including PR3. Proteinase 3 (PR3) was identified as the target antigen of ANCA in Wegener's granulomatosis (WG). ANCA directed against PR3 (PR3-ANCA) can interfere with the binding of PR3 to its physiological inhibitor alpha1-antitrypsin (alpha1-AT) and with the proteolytic activity of PR3. At the site of inflammation, PR3 can cleave the PR3-ANCA complex between these inhibiting ANCA and PR3 itself, leaving active PR3. Autoantibodies to PR3 are potent activators of the 5-lipoxygenase pathway in primed human neutrophils. Extracellular free arachidonic acid, as present at an inflammatory focus, synergizes with such autoantibodies to evoke full-blown lipid mediator generation, granule secretion and respiratory burst. Proteinase 3 (PR3) is a neutral serine proteinase, which is localized in the azurophilic granules of neutrophils and in granules of monocytes and can be detected in the membrane of secretory vesicles. PR3 degrades a number of extracellular matrix proteins such as elastin and inactivates human C1 inhibitor. Membrane-associated PR3 is also able to activate caspase-3 without triggering apoptosis of neutrophils, which is possibly a neutrophil survival mechanism. In addition, PR3 is involved in myeloid differentiation and is, therefore, also called myeloblastin. The monoclonal antibody PR3-G2 was produced by immunization of mice with a crude granule extract.

References	1. Geld van der, Y et al; Characterization of monoclonal antibodies to proteinase 3 (PR3) as candidate tools for epitope mapping of human anti-PR3 autoantibodies. Clin Exp Immunol 1999, 118: 487 2. Pederzoli, M et al: Proeinase-3 induces procaspase-3 activation in the absence of apoptosis: potential role of this compartmentalized activation of membrane-associated procaspase-3 in neutrophils. J Immunol 2005, 174: 6381
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1335280
UniProt Accession #	P24158; P15637; P18078; Q4VB08; Q4VB09; Q6LBM7; Q6LBN2; Q9UD25; Q9UQD8
NCBI Official Full Name	proteinase 3
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
 Online datasheet: <https://stage.aaabiotech.com/monoclonal/proteinase-3-antibody-elisa/77765>