

Rabbit PRSSL1 Polyclonal Antibody | anti-PRSS57 antibody

PRSSL1 Antibody (C-term)

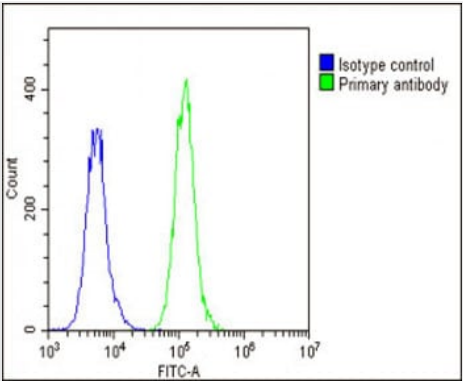
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288797	Rabbit	Human Predicted Reactivity: Mouse, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, ELISA, Western Blot

PRODUCT SYNONYMS

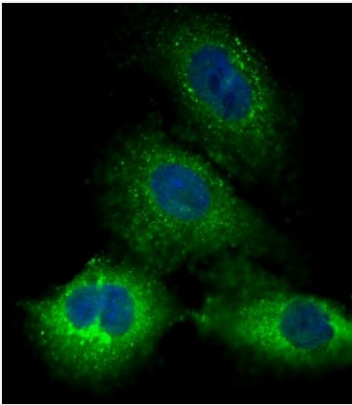
PRSSL1; Polyclonal Antibody; PRSSL1 Antibody (C-term); Serine protease 57; 3421-; Serine protease 1-like protein 1; PRSS57; anti-PRSS57 antibody

PRODUCT SPECIFICATIONS

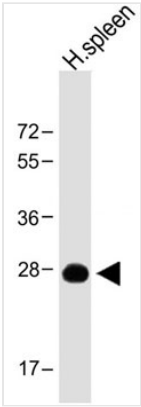
Host	Rabbit
Reactivity	Human Predicted Reactivity: Mouse, Rat
Clonality	Polyclonal
Isotype	Ig
Specificity	This PRSSL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 225-254 amino acids from the C-terminal region of human PRSSL1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	225-254
Sequence Length	283
Applicable Applications for anti-PRSS57 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ELISA, WB (Western Blot)
Function	Serine protease that cleaves preferentially after Arg residues (PubMed:22474388, PubMed:23904161, PubMed:25156428). Can also cleave after citrulline (deiminated arginine) and methylarginine residues (PubMed:25156428).
Cellular Location	Cytoplasmic granule lumen. Secreted. Note: Stored in cytoplasmic granules and secreted as active enzyme in response to stimulation of neutrophils.
Tissue Location	Detected in peripheral blood neutrophil granulocytes, but not in other types of leukocytes. Detected in neutrophils and neutrophil precursors in bone marrow (at protein level) (PubMed:22474388, PubMed:23904161). Detected in myeloblasts and promyelocytes in bonemarrow (PubMed:23904161)
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



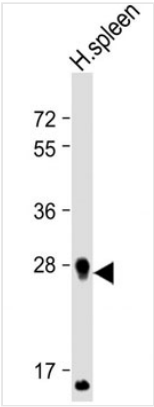
FCM/FACS (Flow Cytometry)
Overlay histogram showing A549 cells stained with AAA288797 (greenline). The cells were fixed with 2% paraformaldehyde (10min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AAA288797, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed (1583138) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1μg/1x10⁶cells) used under the same conditions. Acquisition of > 10,000 events was performed.



IF (Immunofluorescence)
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized A549 cells labeling PRSS57 with AAA288797 at 1/25 dilution, followed by DyLight® 488-conjugated goat anti-Rabbit IgG (OH191631) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm staining on A549 cell line. Cytoplasmic actin is detected with DyLight® 554 Phalloidin (1186255) at 1/500 dilution (red). The nuclear counter stain is DAPI (blue).



WB (Western Blot)
Anti-PRSSL1 Antibody (C-term) at 1:4000 dilution + Human spleen lysateLysates/proteins at 20 μg per lane.Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size: 30 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



WB (Western Blot)
Anti-PRSSL1 Antibody (C-term) at 1:2000 dilution + Human spleen lysateLysates/proteins at 20ug per lane.Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size: 30 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Product Categories/Family for anti-PRSS57 antibody	Cell Biology; Signal transduction
References	Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003) Polikoff, D., et al. Cytogenet. Cell Genet. 79 (1-2), 147-148 (1997) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	47551347
NCBI GeneID	400668
NCBI Accession #	Q6UWY2
NCBI GenBank Nucleotide #	NM_214710.4
UniProt Accession #	Q6UWY2; B2RNW8
NCBI Official Full Name	serine protease 57 isoform 1

NCBI Official Synonym Full Names	protease, serine, 57
NCBI Official Symbol	PRSS57
NCBI Official Synonym Symbols	NSP4; PRSSL1; UNQ782
NCBI Protein Information	serine protease 57
UniProt Protein Name	Serine protease 57
UniProt Gene Name	PRSS57
UniProt Synonym Gene Names	PRSSL1
UniProt Entry Name	PRS57_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/prssl1-antibody-flow-cytometry-immunofluorescence-western-blot-elisa/288797>