10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PRSSL1 Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19873b

Product Information

Application	WB, FC, IF, E
Primary Accession	Q6UWY2
Other Accession	Q6IE59, Q14B24, NP_999875.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB41617
Calculated MW	30334
Antigen Region	225-254

Additional Information

Gene ID	400668
Other Names	Serine protease 57, 3421-, Serine protease 1-like protein 1, PRSS57, PRSSL1
Target/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.
Dilution	WB~~1:1000 FC~~1:25 IF~~1:25 E~~Use at an assay dependent concentration.
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.
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.
Precautions	PRSSL1 Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PRSS57
Synonyms	PRSSL1
Function	Serine protease that cleaves preferentially after Arg residues

	(PubMed:22474388, PubMed:23904161, PubMed:25156428). Can also cleave after citrulline (deimidated 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 bone marrow (PubMed:23904161)

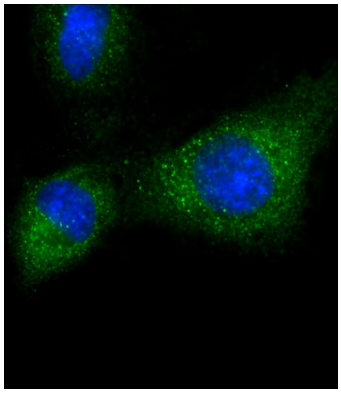
Background

The function of this protein is unknown.

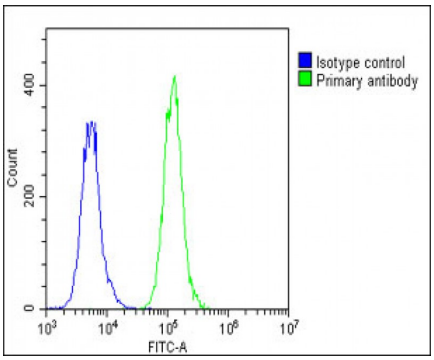
References

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) :

Images

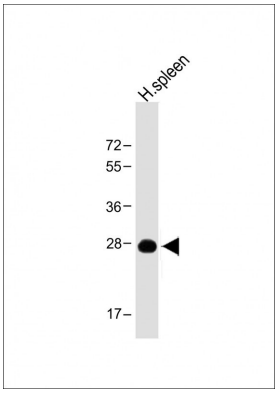


Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized A549 cells labeling PRSS57 with AP19873b at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Rabbit IgG (OH191631) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm 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).



Overlay histogram showing A549 cells stained with AP19873b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP19873b, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

Anti-PRSSL1 Antibody (C-term) at 1:4000 dilution + Human spleen lysate Lysates/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.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.