

# PRSS7 Antibody (C-term E979)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12255b

## Product Information

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<b>Application</b>	WB, IHC-P, FC, E
<b>Primary Accession</b>	<a href="#">P98073</a>
<b>Other Accession</b>	<a href="#">NP_002763.2</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB05297
<b>Calculated MW</b>	112935
<b>Antigen Region</b>	964-994

## Additional Information

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<b>Gene ID</b>	5651
<b>Other Names</b>	Enteropeptidase, Enterokinase, Serine protease 7, Transmembrane protease serine 15, Enteropeptidase non-catalytic heavy chain, Enteropeptidase catalytic light chain, TMPRSS15, ENTK, PRSS7
<b>Target/Specificity</b>	This PRSS7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 964-994 amino acids from the C-terminal region of human PRSS7.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	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.
<b>Precautions</b>	PRSS7 Antibody (C-term E979) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	TMPRSS15
<b>Synonyms</b>	ENTK, PRSS7

<b>Function</b>	Responsible for initiating activation of pancreatic proteolytic proenzymes (trypsin, chymotrypsin and carboxypeptidase A). It catalyzes the conversion of trypsinogen to trypsin which in turn activates other proenzymes including chymotrypsinogen, procarboxypeptidases, and proelastases.
<b>Cellular Location</b>	Membrane; Single-pass type II membrane protein
<b>Tissue Location</b>	Intestinal brush border.

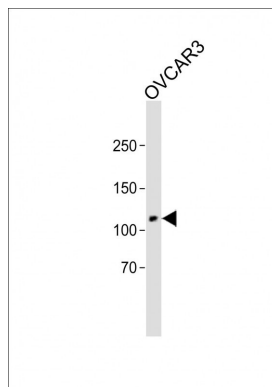
## Background

This gene encodes an enzyme that converts the pancreatic proenzyme trypsinogen to trypsin, which activates other proenzymes including chymotrypsinogen and procarboxypeptidases. The precursor protein is cleaved into two chains that form a heterodimer linked by a disulfide bond. This protein is a member of the trypsin family of peptidases. Mutations in this gene cause enterokinase deficiency, a malabsorption disorder characterized by diarrhea and failure to thrive.

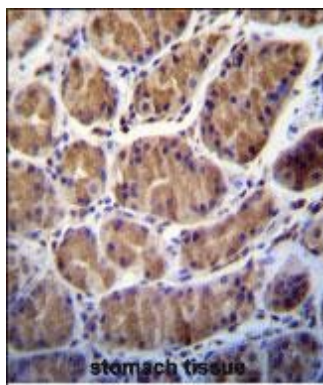
## References

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 Nakanishi, J., et al. J. Invest. Dermatol. 130(4):944-952(2010)  
 Vilen, S.T., et al. Exp. Cell Res. 314(4):914-926(2008)  
 Imamura, T., et al. Am. J. Physiol. Gastrointest. Liver Physiol. 285 (6), G1235-G1241 (2003) :  
 Holzinger, A., et al. Am. J. Hum. Genet. 70(1):20-25(2002)

## Images

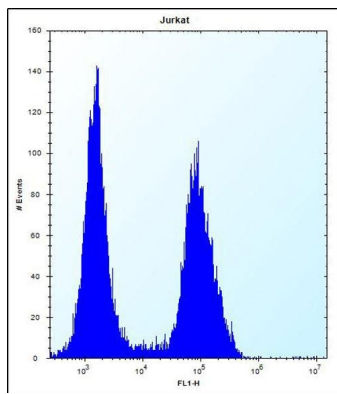


All lanes: Anti-PRSS7 Antibody (C-term E979) at 1:500 dilution + OVCAR3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 113 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



PRSS7 Antibody (C-term E979) (Cat. #AP12255b) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of PRSS7 Antibody (C-term E979) for immunohistochemistry. Clinical relevance has not been evaluated.

PRSS7 Antibody (C-term E979) (Cat. #AP12255b) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left)



histogram). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

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