

PRSS1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10735c

Product Information

Application	WB, IHC-P, E
Primary Accession	P07477
Other Accession	NP_002760.1
Reactivity	Human
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24880
Calculated MW	26558
Antigen Region	81-107

Additional Information

Gene ID	5644
Other Names	Trypsin-1, Beta-trypsin, Cationic trypsinogen, Serine protease 1, Trypsin I, Alpha-trypsin chain 1, Alpha-trypsin chain 2, PRSS1, TRP1, TRY1, TRYP1
Target/Specificity	This PRSS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 81-107 amino acids from the Central region of human PRSS1.
Dilution	WB~~1:1000 IHC-P~~1:100 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	PRSS1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PRSS1 (HGNC:9475)
Function	Has activity against the synthetic substrates Boc-Phe-Ser- Arg-Mec, Boc-Leu-Thr-Arg-Mec, Boc-Gln-Ala-Arg-Mec and Boc-Val-Pro-Arg- Mec. The

single-chain form is more active than the two-chain form against all of these substrates.

Cellular Location Secreted, extracellular space.

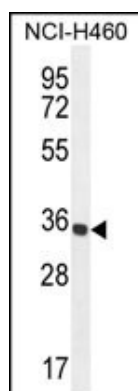
Background

This gene encodes a trypsinogen, which is a member of the trypsin family of serine proteases. This enzyme is secreted by the pancreas and cleaved to its active form in the small intestine. It is active on peptide linkages involving the carboxyl group of lysine or arginine. Mutations in this gene are associated with hereditary pancreatitis. This gene and several other trypsinogen genes are localized to the T cell receptor beta locus on chromosome 7.

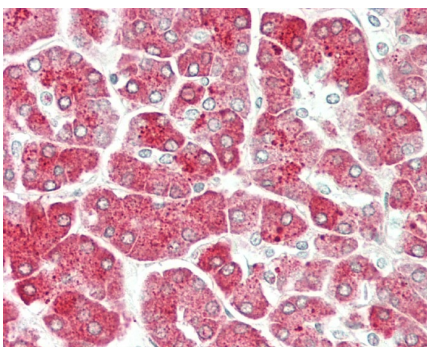
References

Joergensen, M.T., et al. Am. J. Gastroenterol. 105(8):1876-1883(2010)
Gasiorowska, A., et al. Dig. Dis. Sci. (2010) In press :
Szmola, R., et al. J. Med. Genet. 47(5):348-350(2010)
Nakanuma, S., et al. Int. J. Oncol. 36(4):793-800(2010)
Johansen, D., et al. Pancreatology 10 (2-3), 229-237 (2010) :

Images



PRSS1 Antibody (Center) (Cat. #AP10735c) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the PRSS1 antibody detected the PRSS1 protein (arrow).



Formalin-fixed and paraffin-embedded H.pancreas tissue reacted with PRSS1 Antibody (Center) (Cat#AP10735c).

Citations

- [Trypsin activity governs increased susceptibility to pancreatitis in mice expressing human PRSS1R122H](#)
- [Transgenic Expression of PRSS1R122H Sensitizes Mice to Pancreatitis.](#)

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