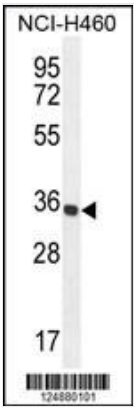
PRSS1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRSS1, Polyclonal Antibody
Full Product Name	PRSS1, ID (PRSS1, TRP1, TRY1, TRYP1, Trypsin-1, Beta-trypsin, Cationic trypsinogen, Serine protease 1, Trypsin I, Alpha-trypsin chain 1, Alpha-trypsin chain 2) (AP)
Product Gene Name	anti-PRSS1 antibody
Product Synonym Names	PRSS1; TRP1; TRY1; TRYP1; Trypsin-1; Beta-trypsin; Cationic trypsinogen; Serine protease 1; Trypsin I; Alpha-trypsin chain 1; Alpha-trypsin chain 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	160,000
Chromosome Location	Chromosome: 7; NC_000007.13 (142457319..142460927). Location: 7q34
OMIM	167800
3D Structure	ModBase 3D Structure for P07477
Immunogen	PRSS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 84-111 amino acids from the Central region of human PRSS1.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-PRSS1 antibody	Antibodies; Enzymes; Protease (Proteinase; Peptidase)
Applications Tested/Suitable for anti-PRSS1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PRSS1 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PRSS1 antibody	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.
Product References and Citations for anti-PRSS1 antibody	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).

Other Notes	Small volumes of anti-PRSS1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PRSS1 purchase	MBS6337886 is an antibody targeting PRSS1. Also known as PRSS1, ID (PRSS1, TRP1, TRY1, TRYP1, Trypsin-1, Beta-trypsin, Cationic trypsinogen, Serine protease 1, Trypsin I, Alpha-trypsin chain 1, Alpha-trypsin chain 2) (AP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PRSS1 antibody
PRSS1 Antibody (Center) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the PRSS1 antibody detected the PRSS1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRSS1. It may not necessarily be applicable to this product.

NCBI GI #	4506145
NCBI GeneID	5644
NCBI Accession #	NP_002760.1
UniProt Primary Accession #	P07477
UniProt Secondary Accession #	Q5NV57; Q7M4N3; Q7M4N4; Q92955; Q9HAN4; Q9HAN5; Q9HAN6; Q9HAN7; A1A509; A6NJ71; B2R5I5
UniProt Related Accession #	P07477
GenBank Nucleotide #	NM_002769.4
NCBI Official Full Name	trypsin-1 preproprotein
NCBI Official Synonym Full Names	protease, serine, 1 (trypsin 1)
NCBI Official Symbol	PRSS1
NCBI Official Synonym Symbols	TRP1; TRY1; TRY4; TRYP1
UniProt Protein Name	Trypsin-1
UniProt Synonym Protein Names	Beta-trypsin; Cationic trypsinogen; Serine protease 1; Trypsin I
Protein Family	Anionic trypsin
UniProt Gene Name	PRSS1
UniProt Synonym Gene Names	TRP1; TRY1; TRYP1
UniProt Entry Name	TRY1_HUMAN
NCBI Protein Information	trypsin-1; beta-trypsin; trypsinogen 1; trypsinogen A; digestive zymogen; cationic trypsinogen; nonfunctional trypsin 1

UniProt Comments for PRSS1	trypsin 1: 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. Defects in PRSS1 are a cause of pancreatitis (PCTT). A disease characterized by the presence of calculi in pancreatic ducts. It causes severe abdominal pain attacks. Belongs to the peptidase S1 family. Protein type: Protease; Secreted, signal peptide; Secreted; EC 3.4.21.4 Chromosomal Location of Human Ortholog: 7q34 Cellular Component: extracellular region Molecular Function: metal ion binding; serine-type endopeptidase activity Biological Process: extracellular matrix disassembly; extracellular matrix organization and biogenesis; vitamin metabolic process; cobalamin metabolic process; digestion; proteolysis; water-soluble vitamin metabolic process Disease: Trypsinogen Deficiency; Pancreatitis, Hereditary
Research Articles on PRSS1	**1.** Frequencies of CFTR variants p.R75Q, p.I148T, 5T-allele and p.E528E were comparable in patients and controls. We identified 103 CFTR variants, which represents a 2.7-fold risk increase (p<0.0001).
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