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PRSS1 Rabbit pAb

Catalog # AP99934

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P07477
Other Accession	P07477
Reactivity	Human
Predicted	Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26558
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PRSS1
Epitope Specificity	51-150/247
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SIMILARITY	Belongs to the peptidase S1 family. Contains 1 peptidase S1 domain.
Post-translational modifications	Occurs in a single-chain form and a two-chain form, produced by proteolytic cleavage after Arg-122.
DISEASE	Defects in PRSS1 are a cause of hereditary pancreatitis (HPC) [MIM:167800]; also known as chronic pancreatitis (CP). HPC is an autosomal dominant disease characterized by the presence of calculi in pancreatic ducts. It causes severe abdominal pain attacks.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	5644
Other Names	TRP1; TRY1; TRY4; TRYP1; Try-1; Trygn16; PTRYI; RATPTRYI; TRY1_BOVIN; PRSS1; Anionic trypsin I; Anionic trypsin-I; Beta-trypsin; Cationic trypsin; Pretrypsinogen I; Trypsin I; Trypsin-I; 3.4.21.4; TRY1_HUMAN; Cationic trypsinogen; Trypsin-1; TRY1_RAT; Anionic trypsin-1; serine protease 1; trypsin 1; protease, serine 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

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