

Rabbit PRSS1 Polyclonal Antibody | anti-PRSS1 antibody

PRSS1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326148	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

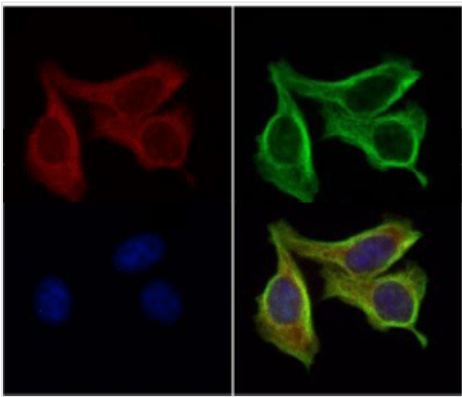
PRODUCT SYNONYMS

PRSS1; Polyclonal Antibody; PRSS1 Antibody; Alpha-trypsin chain 2; Beta-trypsin; Cationic trypsinogen; Digestive zymogen; Nonfunctional trypsin 1; Prss1; Serine protease 1; TCR V beta 4.1; TRP1; TRY1; TRY1_HUMAN; TRY4; TRYP1; Trypsin I; Trypsinogen 1; Trypsinogen A; anti-PRSS1 antibody

PRODUCT SPECIFICATIONS

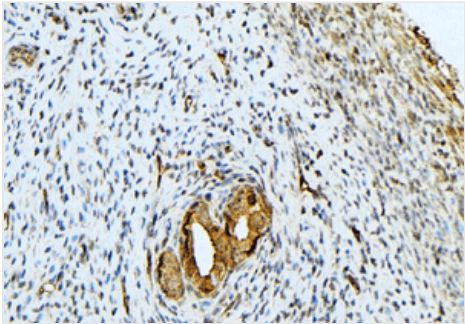
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PRSS1 antibody detects endogenous levels of total PRSS1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	247
Applicable Applications for anti-PRSS1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PRSS1, corresponding to a region within the internal amino acids.
Subcellular Location	Secreted > Extracellular Space.
Conjugation	Unconjugated
Important	For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



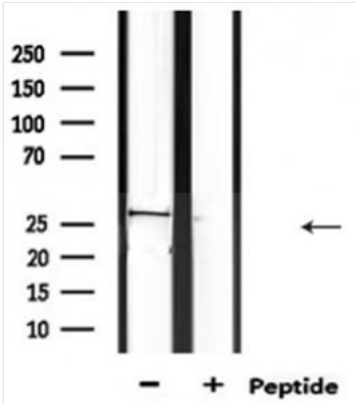
IF (Immunofluorescence)

AAA326148 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA326148 1:200) and mouse anti-beta tubulin Ab for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary Ab.



IHC (Immunohistochemistry)

AAA326148 at 1/100 staining Human uterus tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from mouse brain, using PRSS1 Ab. The lane on the right was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PRSS1 antibody

Description: 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]

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.

Post-translational Modifications: Occurs in a single-chain form and a two-chain form, produced by proteolytic cleavage after Arg-122. Sulfation at Tyr-154 increases selectivity towards basic versus apolar residues at the P2' position of inhibitors that bind in a substrate-like fashion. Although the increase in selectivity is relatively small, it may facilitate digestion of a broader range of dietary proteins.

Similarity: Belongs to the peptidase S1 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506145
NCBI GeneID	5644

NCBI Accession #	NP_002760.1
NCBI GenBank Nucleotide #	NM_002769.4
UniProt Accession #	P07477 ; Q5NV57 ; Q7M4N3 ; Q7M4N4 ; Q92955 ; Q9HAN4 ; Q9HAN5 ; Q9HAN6 ; Q9HAN7 ; A1A509 ; A6NJ71 ; B2R5I5
Molecular Weight	27 kDa
NCBI Official Full Name	trypsin-1 preproprotein
NCBI Official Synonym Full Names	serine protease 1
NCBI Official Symbol	PRSS1
NCBI Official Synonym Symbols	TRP1; TRY1; TRY4; TRYP1
NCBI Protein Information	trypsin-1
UniProt Protein Name	Trypsin-1
UniProt Gene Name	PRSS1
UniProt Synonym Gene Names	TRP1; TRY1; TRYP1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/prss1-antibody-immunohistochemistry-western-blot-elisa/326148>