

## Product datasheet

# Anti-Trypsin antibody [EPR19497] ab200996

Recombinant RabMAb

[2 References](#) [6 Images](#)

### Overview

<b>Product name</b>	Anti-Trypsin antibody [EPR19497]
<b>Description</b>	Rabbit monoclonal [EPR19497] to Trypsin
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human, Recombinant fragment
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human PRSS1 fragment recombinant protein; Human pancreas lysate. IHC-P: Human pancreas tissue.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR19497
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab200996 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/8000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/5000. Detects a band of approximately 27 kDa (predicted molecular weight: 27 kDa).

## Target

### 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.

### Involvement in 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.

### Sequence similarities

Belongs to the peptidase S1 family.  
Contains 1 peptidase S1 domain.

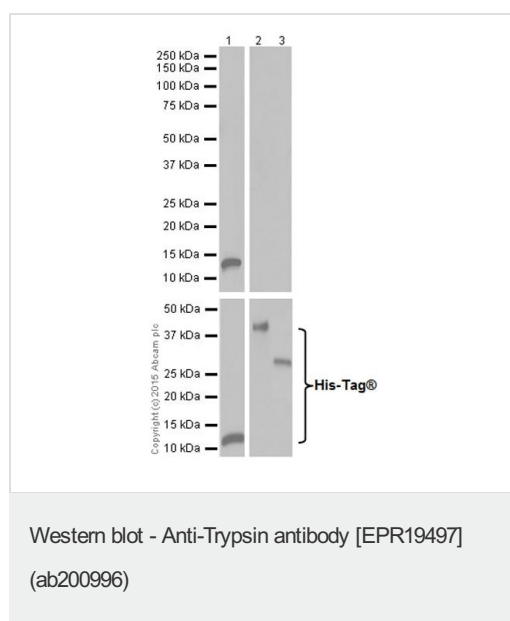
### Post-translational modifications

Occurs in a single-chain form and a two-chain form, produced by proteolytic cleavage after Arg-122.

### Cellular localization

Secreted > extracellular space.

## Images



**All lanes** : Anti-Trypsin antibody [EPR19497] (ab200996) at 1/1000 dilution

**Lane 1** : Human PRSS1 fragment recombinant protein

**Lane 2** : Human TRY3 full length recombinant protein

**Lane 3** : Human TRY6 full length recombinant protein

Lysates/proteins at 0.01 µg per lane.

### Secondary

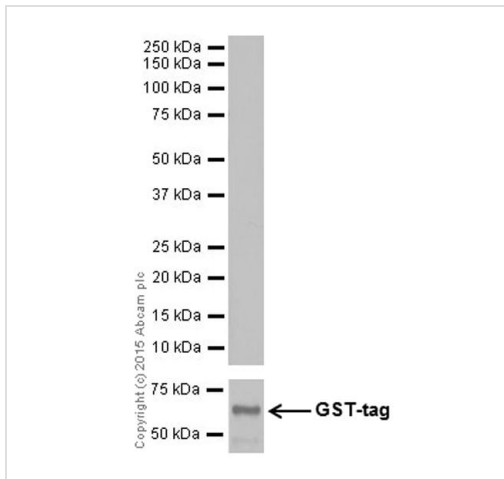
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

**Predicted band size:** 27 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1: 1 second; Lane 2 and 3: 3 minutes.

Human PRSS1 fragment recombinant protein contains aa24-122 with a His-Tag<sup>®</sup>. Human TRY3 full length recombinant protein contains aa1-304 with a His-Tag<sup>®</sup>. Human TRY6 full length recombinant protein contains aa1-247 with a His-Tag<sup>®</sup>. These three recombinant proteins were made in-house.



Western blot - Anti-Trypsin antibody [EPR19497] (ab200996)

Anti-Trypsin antibody [EPR19497] (ab200996) at 1/1000 dilution + Human TRY2 full length recombinant protein at 0.01 µg

### Secondary

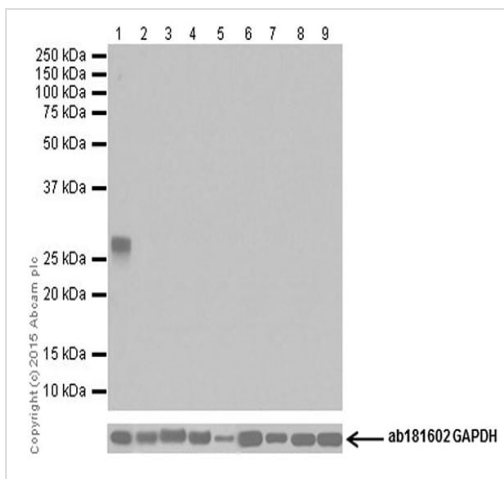
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

**Predicted band size:** 27 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

Human TRY2 full length recombinant protein contains aa1-247 with a GST-Tag. It was made in-house.



Western blot - Anti-Trypsin antibody [EPR19497] (ab200996)

**All lanes :** Anti-Trypsin antibody [EPR19497] (ab200996) at 1/5000 dilution

**Lane 1 :** Human pancreas lysate

**Lane 2 :** Human fetal liver lysate

**Lane 3 :** Human fetal heart lysate

**Lane 4 :** Human fetal kidney lysate

**Lane 5 :** Human fetal spleen lysate

**Lane 6 :** Human fetal lung lysate

**Lane 7 :** BxPC-3 (Human pancreas adenocarcinoma cell line) whole cell lysate

**Lane 8 :** THP-1 (Human monocytic leukemia cell line) whole cell lysate

**Lane 9 :** HT-29 (Human colorectal adenocarcinoma cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

## Secondary

**All lanes :** Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

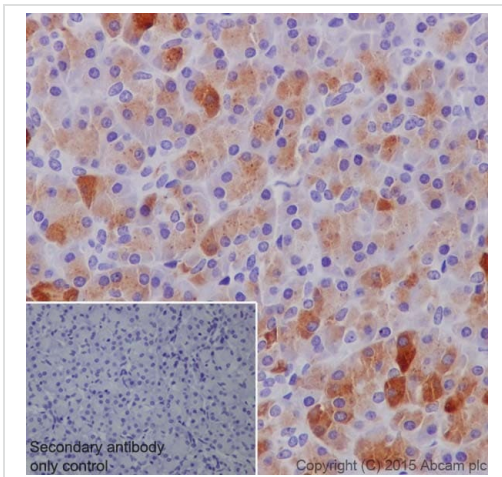
**Predicted band size:** 27 kDa

**Observed band size:** 27 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

Trypsin 1, encoded by the PRSS1 gene, is synthesized in the pancreas. The expression profile observed is consistent with what has been described in the literatures (PMID: 3011602, 7945238, 24722290).

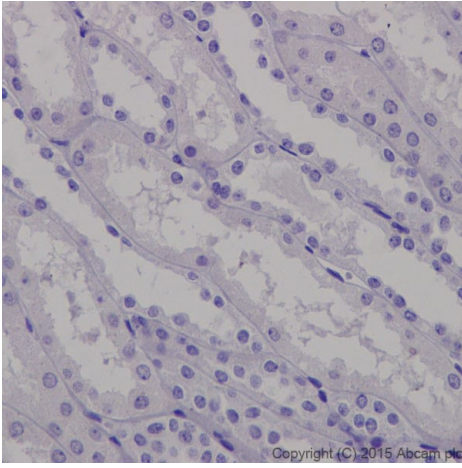


Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling PRSS1 with ab200996 at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on acinar cells Human pancreas is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trypsin antibody [EPR19497] (ab200996)







Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling PRSS1 with ab200996 at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Negative staining on Human kidney. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trypsin antibody [EPR19497] (ab200996)

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-Trypsin antibody [EPR19497] (ab200996)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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