

Product datasheet

Anti-Trypsin antibody [EPR19497] ab200996

Recombinant RabMAb

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

Overview

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

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19497
Isotype	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.

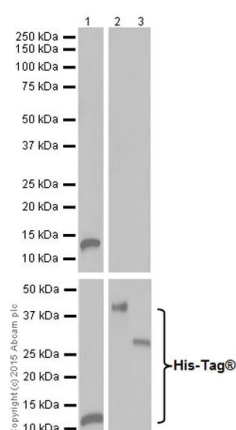
Post-translational modifications

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

Cellular localization

Secreted > extracellular space.

Images



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

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

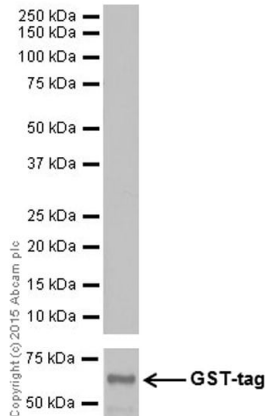
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at
1/100000 dilution

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[®]. Human TRY3 full length recombinant protein contains aa1-304 with a His-Tag[®]. Human TRY6 full length recombinant protein contains aa1-247 with a His-Tag[®]. 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

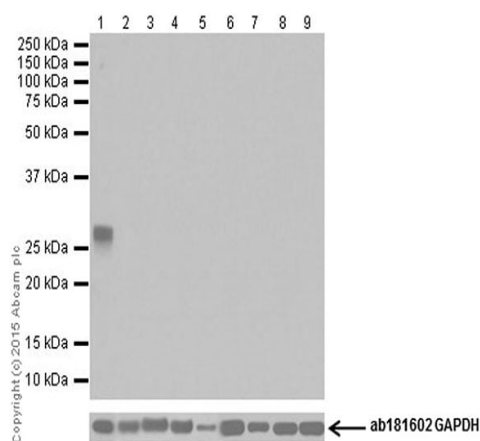
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

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 tissue lysate

Lane 3 : Human fetal heart tissue lysate

Lane 4 : Human fetal kidney tissue lysate

Lane 5 : Human fetal spleen tissue lysate

Lane 6 : Human fetal lung tissue 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

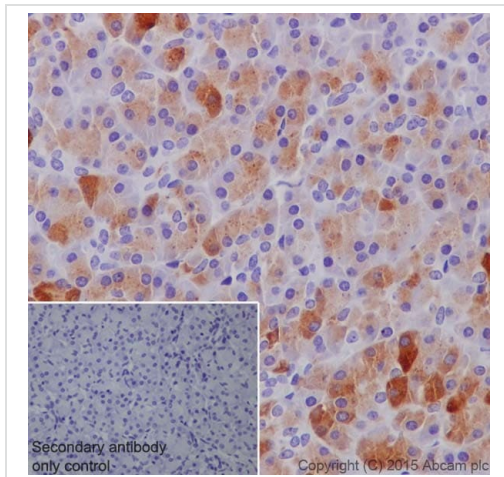
Predicted band size: 27 kDa

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).

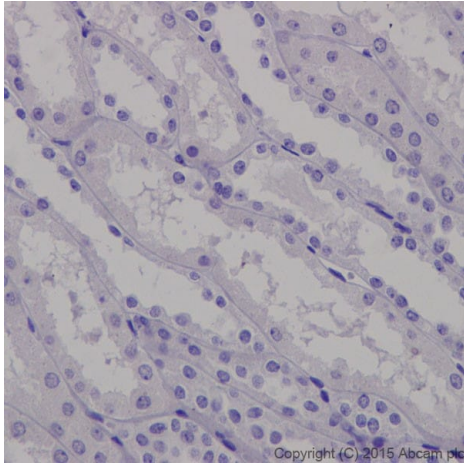


Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling PRSS1 with ab200996 at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Cytoplasm staining on acinar cells Human pancreas is observed. Counter stained with Hematoxylin.

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?



Anti-Trypsin antibody [EPR19497] (ab200996)

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

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