



Product datasheet

Anti-Trypsin antibody [EPR19498] ab200997

Recombinant RabMAB

[7 Images](#)

Overview

Product name	Anti-Trypsin antibody [EPR19498]
Description	Rabbit monoclonal [EPR19498] to Trypsin
Host species	Rabbit
Specificity	This product reacts with human Trypsin 1, Trypsin 3 and Putative trypsin 6 but not with Trypsin 2. However, it might cross react with other family members and isoforms.
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human Trypsin aa 100 to the C-terminus. The exact sequence is proprietary. Database link: P07477
	 Run BLAST with  Run BLAST with
Positive control	WB: Human PRSS1 fragment recombinant; Human PRSS3 full length recombinant protein; Human PRSS3P2 full length recombinant protein; Human pancreas lysate. IHC-P: Human pancreas, cerebrum and pancreas cancer tissues.
General notes	This product is a recombinant rabbit monoclonal antibody. Our RabMAB [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab[®] patents

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	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19498
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab200997** in the following tested applications.

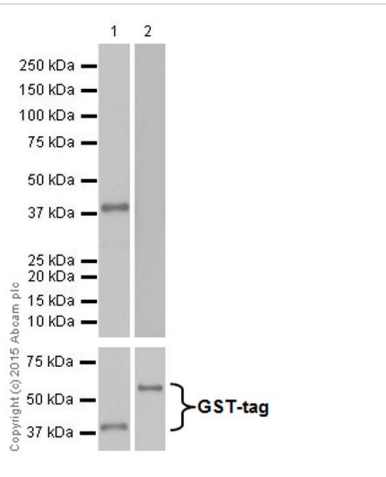
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 27 kDa (predicted molecular weight: 27, 33 kDa).
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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 [EPR19498]
(ab200997)

All lanes : Anti-Trypsin antibody [EPR19498]
(ab200997) at 1/1000 dilution

Lane 1 : Human PRSS1 fragment
recombinant protein

Lane 2 : Human PRSS2 full length
recombinant protein

Lysates/proteins at 0.01 µg per lane.

Secondary

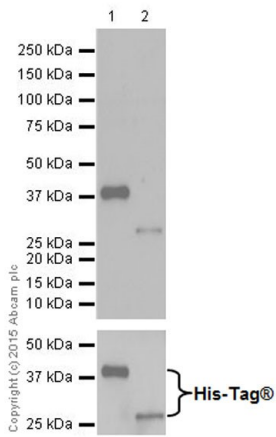
All lanes : Goat Anti-Rabbit IgG H&L (HRP)
(ab97051) at 1/100000 dilution

Predicted band size: 27, 33 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

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

Human PRSS1 fragment recombinant protein
contains aa123-247 with a GST-Tag; Human
PRSS2 full length recombinant protein
contains aa1-247 with a GST-Tag. These two
recombinant proteins were made in-house.



Western blot - Anti-Trypsin antibody [EPR19498]
(ab200997)

All lanes : Anti-Trypsin antibody [EPR19498]
(ab200997) at 1/1000 dilution

Lane 1 : Human PRSS3 full length
recombinant protein

Lane 2 : Human PRSS3P2 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

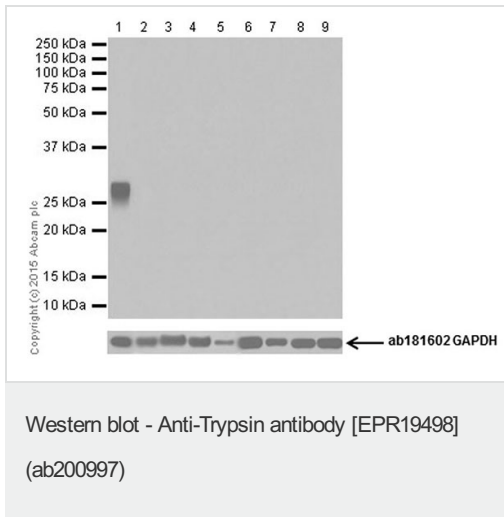
Predicted band size: 27, 33 kDa

Observed band size: 27 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFD/MTBST.

Human PRSS3 full length recombinant protein contains aa1-304 with a His-Tag®. Human PRSS3P2 full length recombinant protein contains aa1-247 with a His-Tag®. These two recombinant proteins were made in-house.



All lanes : Anti-Trypsin antibody [EPR19498] (ab200997) at 1/2000 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

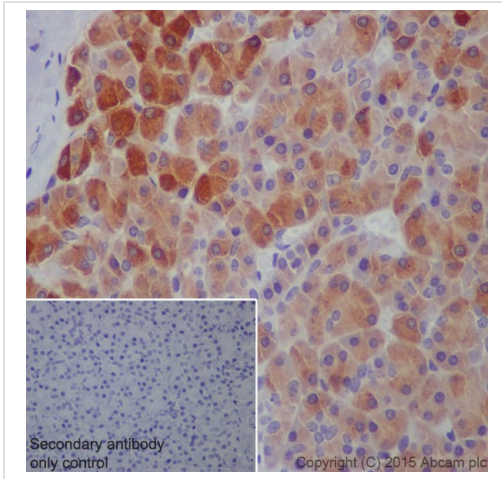
Predicted band size: 27, 33 kDa

Observed band size: 27 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFD/MTBST.

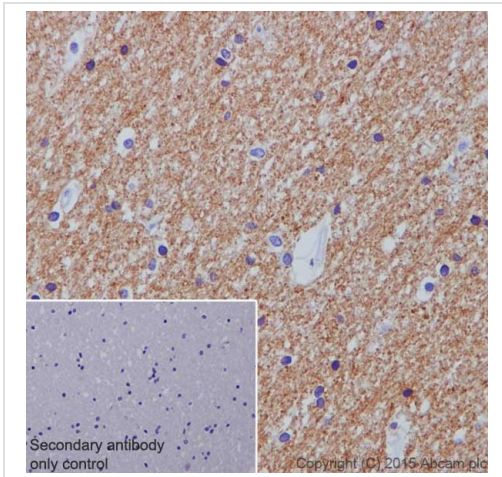
Trypsinogens I (PRSS1), Trypsinogens II (PRSS2), and mesotrypsinogen (PRSS3) are the major trypsinogen genes in the human pancreas. Trypsinogens I and II are the principal forms of trypsin that are secreted in pancreatic juice, while mesotrypsinogen is a minor trypsinogen in human pancreatic juice [PMID: 14726524, 3011602, 6698368, and 9099703]. This product recognizes PRSS1, and shows some cross-reactivity with PRSS3 and PRSS3P2 proteins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trypsin antibody [EPR19498] (ab200997)

Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling Trypsin with ab200997 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on acinar cells of Human pancreas is observed. Counter stained with Hematoxylin.

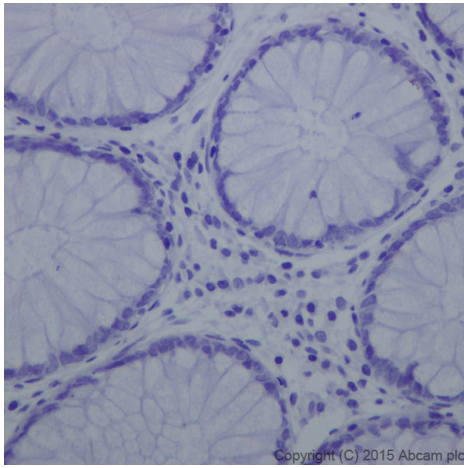
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trypsin antibody [EPR19498] (ab200997)

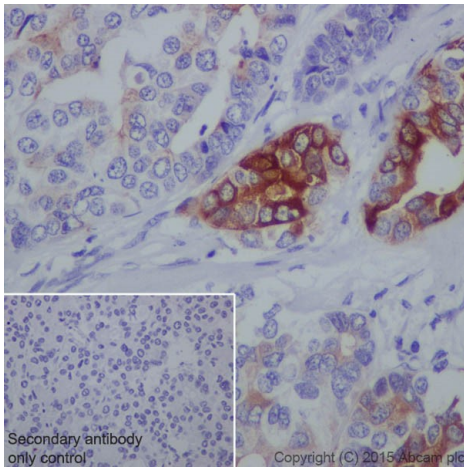
Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labeling Trypsin with ab200997 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on Human cerebrum is observed. Counter stained with Hematoxylin.

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.



Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Trypsin with ab200997 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Negative staining on Human colon. Counter stained with Hematoxylin.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trypsin antibody [EPR19498] (ab200997)



Immunohistochemical analysis of paraffin-embedded Human pancreas cancer tissue labeling Trypsin with ab200997 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on Human pancreas cancer 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.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trypsin antibody [EPR19498] (ab200997)

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