

Product datasheet

Anti-Trypsin antibody [EPR19498-43] - BSA and Azide free ab251326

Recombinant RabMAb

8 Images

Overview

Product name	Anti-Trypsin antibody [EPR19498-43] - BSA and Azide free
Description	Rabbit monoclonal [EPR19498-43] to Trypsin - BSA and Azide free
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, Recombinant fragment
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
General notes	ab251326 is the carrier-free version of ab200997 .

Our [carrier-free](#) antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our [conjugation kits](#) for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Clonality	Monoclonal
Clone number	EPR19498-43
Isotype	IgG

Applications

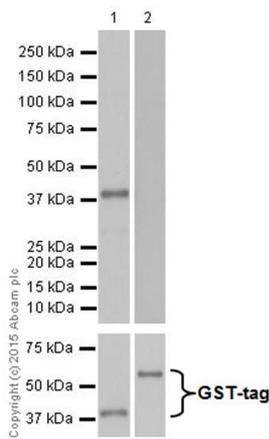
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab251326 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 27 kDa (predicted molecular weight: 27, 33 kDa).
IHC-P		Use at an assay dependent concentration. 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] - BSA and Azide free (ab251326)

All lanes : Anti-Trypsin antibody [EPR19498-43] ([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

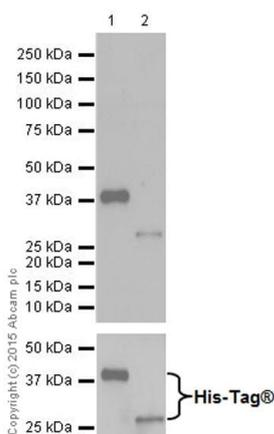
Predicted band size: 27, 33 kDa

This data was developed using [ab200997](#), the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure times: 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] - BSA and Azide free (ab251326)

All lanes : Anti-Trypsin antibody [EPR19498-43] ([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

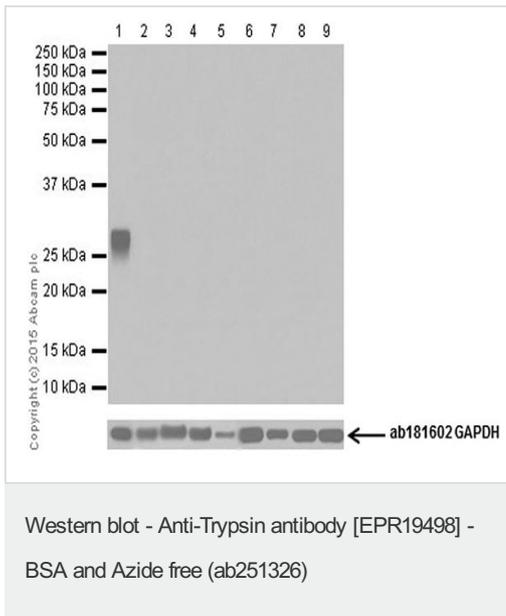
Observed band size: 27 kDa

Exposure time: 3 minutes

This data was developed using [ab200997](#), the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDm/TBST.

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 [EPR19498-43] ([ab200997](#)) at 1/2000 dilution

Lane 1 : Human pancreas tissue 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, 33 kDa

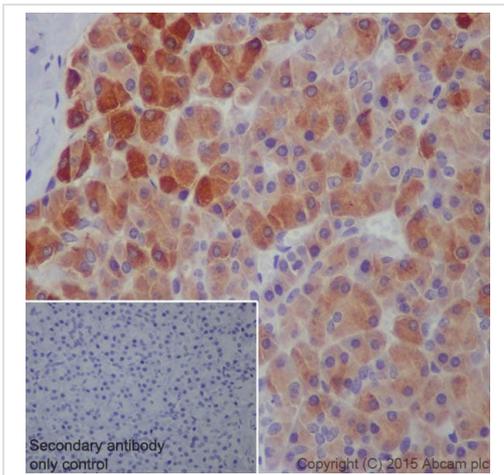
Observed band size: 27 kDa

Exposure time: 3 minutes

This data was developed using [ab200997](#), the same antibody clone in a different buffer formulation.

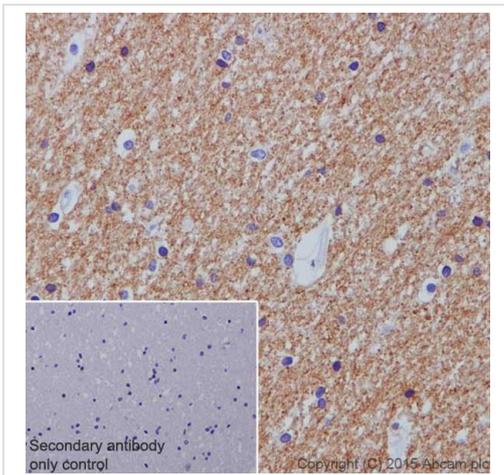
Blocking and dilution buffer: 5% NFDm/TBST.

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.



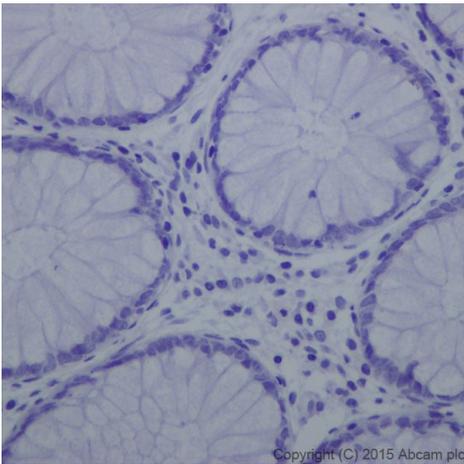
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trypsin antibody [EPR19498] - BSA and Azide free (ab251326)

This data was developed using [ab200997](#), the same antibody clone in a different buffer formulation. 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. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



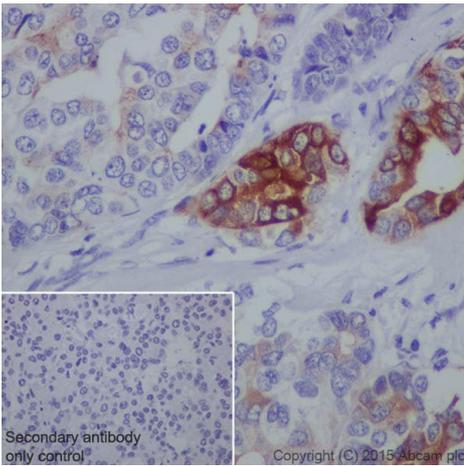
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trypsin antibody [EPR19498] - BSA and Azide free (ab251326)

This data was developed using [ab200997](#), the same antibody clone in a different buffer formulation. 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. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



This data was developed using [ab200997](#), the same antibody clone in a different buffer formulation. 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. 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 [EPR19498] - BSA and Azide free ([ab251326](#))



This data was developed using [ab200997](#), the same antibody clone in a different buffer formulation. 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. 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 [EPR19498] - BSA and Azide free ([ab251326](#))

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Trypsin antibody [EPR19498] - BSA and Azide free (ab251326)

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

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