abcam

Product datasheet

Anti-TMPRSS2 antibody [EPR3861] - BSA and Azide free ab239905

Recombinant RabMAb

6 Images

Overview

Product name	Anti-TMPRSS2 antibody [EPR3861] - BSA and Azide free
Description	Rabbit monoclonal [EPR3861] to TMPRSS2 - BSA and Azide free
Host species	Rabbit
Specificity	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
Tested applications	**Suitable for:** IHC-P, WB **Unsuitable for:** Flow Cyt or ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Caco 2, LNCaP and PC3 whole cell lysates. Human heart, brain, colon, prostate, and small intestine tissue lysates. Mouse prostate and kidney tissue lysates. Rat colon and kidney tissue lysates; IHC-P: Human prostatic adenocarcinoma and human kidney.
General notes	ab239905 is the carrier-free version of ab92323. 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.

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

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
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR3861
Isotype	IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab239905 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		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See IHC antigen retrieval protocols. The use of an HRP/AP polymerized secondary antibody is recommended as stronger signals have been found using these.
WB		Use at an assay dependent concentration. Predicted molecular weight: 54 kDa.

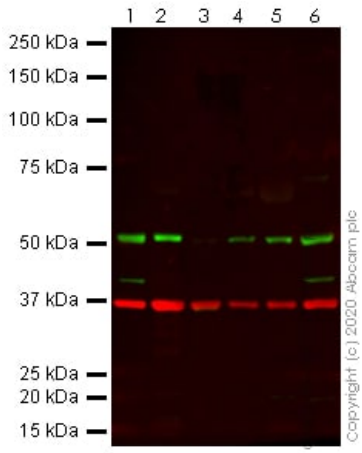
Application notes Is unsuitable for Flow Cyt or ICC/IF.

Target

Tissue specificity Expressed strongly in small intestine. Also expressed in prostate, colon, stomach and salivary gland.

Sequence similarities	Belongs to the peptidase S1 family. Contains 1 LDL-receptor class A domain. Contains 1 peptidase S1 domain. Contains 1 SRCR domain.
Cellular localization	Cell membrane and Secreted. Activated by cleavage and secreted.

Images



Western blot - Anti-TMPRSS2 antibody [EPR3861] - BSA and Azide free (ab239905)

All lanes : Anti-TMPRSS2 antibody [EPR3861] (ab92323) at 1/1000 dilution

Lane 1 : LnCaP cell lysate
Lane 2 : Human prostate tissue lysate
Lane 3 : Caco 2 cell lysate
Lane 4 : Human lung tissue lysate
Lane 5 : Human heart tissue lysate
Lane 6 : Human brain tissue lysate

Lysates/proteins at 20 µg per lane.

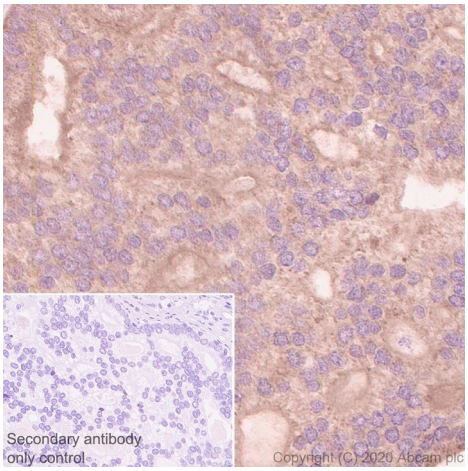
Performed under reducing conditions.

Predicted band size: 54 kDa
Observed band size: 52 kDa

This data was developed using the same antibody clone in a different buffer formulation (ab92323).

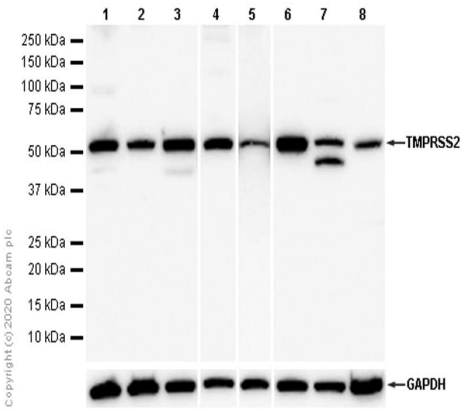
Lanes 1 - 6: Merged signal (red and green). Green - ab92323 observed at 52 kDa. Red - loading control, mouse anti GAPDH observed at 37kDa.

ab92323 was shown to react with TMPRSS2 in western blot. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab92323 and mouse anti GAPDH overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS2 antibody [EPR3861] - BSA and Azide free (ab239905)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human prostate carcinoma tissue sections labeling TMPRSS2 with purified ab92323 at 1/1000 dilution (0.49 µg/mL). Perform heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab92323).



Western blot - Anti-TMPRSS2 antibody [EPR3861] - BSA and Azide free (ab239905)

All lanes : Anti-TMPRSS2 antibody [EPR3861] (ab92323) at 1/1000 dilution (purified)

Lane 1 : LNCaP (Human prostate carcinoma epithelial cell) whole cell lysate
Lane 2 : PC-3 (Human prostate adenocarcinoma epithelial cell) whole cell lysate
Lane 3 : Human colon lysate
Lane 4 : Human small intestine lysate
Lane 5 : Mouse prostate lysate
Lane 6 : Mouse kidney lysate
Lane 7 : Rat colon lysate
Lane 8 : Rat kidney lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

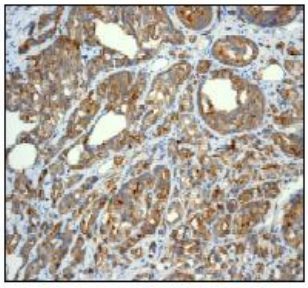
Predicted band size: 54 kDa
Observed band size: 54 kDa

This data was developed using the same antibody clone in a

different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab92323).

Western blot - Anti-TMPRSS2 antibody [EPR3861] - BSA and Azide free (ab239905)

This data was developed using ab92323, the same antibody clone in a different buffer formulation. Different batches of ab92323 were tested on LNCaP (Human prostate carcinoma epithelial cell) lysate at 0.5 µg/ml. 15 µg of lysate was loaded in each lane. Bands observed at 54 kDa.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS2 antibody [EPR3861] - BSA and Azide free (ab239905)

Unpurified ab92323 at 1/1000 dilution, staining TMPRSS2 in paraffin embedded Human prostatic adenocarcinoma

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab92323).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Anti-TMPRSS2 antibody [EPR3861] - BSA and Azide free (ab239905)

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