

Anti-TMPRSS2 antibody [EPR3862] - BSA and Azide free ab242384

KO 評価済 リコンビナント RabMAb

[3 References](#) [画像数 5](#)

製品の概要

製品名	Anti-TMPRSS2 antibody [EPR3862] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR3862] to TMPRSS2 - BSA and Azide free
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P 適用なし: ICC/IF
種交差性	交差種: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	IHC-P: Human prostatic adenocarcinoma tissue; WB: Human prostate lysate.
特記事項	<p>ab242384 is the carrier-free version of ab109131.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <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>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR3862
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab242384の使用に適用されず**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

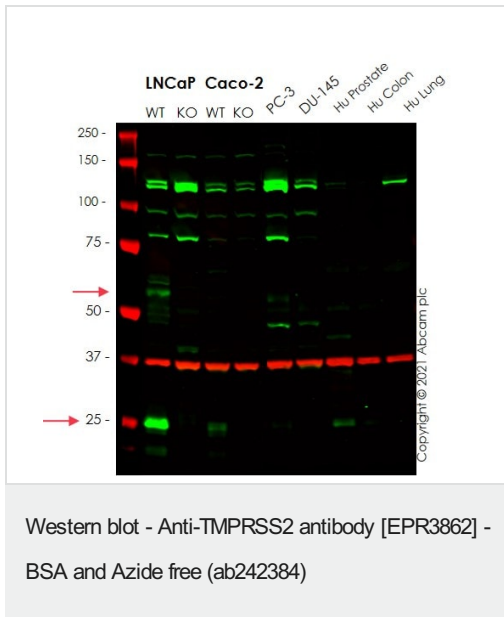
アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent concentration. Detects a band of approximately 54,28 kDa (predicted molecular weight: 54 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

追加情報 Is unsuitable for ICC/IF.

ターゲット情報

組織特異性	Expressed strongly in small intestine. Also expressed in prostate, colon, stomach and salivary gland.
配列類似性	Belongs to the peptidase S1 family. Contains 1 LDL-receptor class A domain. Contains 1 peptidase S1 domain. Contains 1 SRCR domain.
細胞内局在	Cell membrane and Secreted. Activated by cleavage and secreted.

画像



All lanes : Anti-TMPRSS2 antibody [EPR3862] (**ab109131**) at 1/2000 dilution

- Lane 1** : Wild-type LNCaP cell lysate
- Lane 2** : TMPRSS2 knockout LNCaP cell lysate
- Lane 3** : Wild-type Caco-2 cell lysate
- Lane 4** : TMPRSS2 knockout Caco-2 cell lysate
- Lane 5** : PC-3 cell lysate
- Lane 6** : DU 145 cell lysate
- Lane 7** : Human Prostate cell lysate
- Lane 8** : Human Colon cell lysate
- Lane 9** : Human Lung cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 54 kDa

Observed band size: 25, 55 kDa

False colour image of Western blot: Anti-TMPRSS2 antibody [EPR3862] staining at 1/2000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, **ab109131** was shown to bind specifically to TMPRSS2. A band was observed at 55, 25 kDa in wild-type LNCaP and at 25 kDa in Caco-2 cell lysates with no signal observed at this size in TMPRSS2 knockout LNCaP cell line **ab273745** (knockout LNCaP cell lysate **ab275499**) and TMPRSS2 knockout Caco-2 cell line **ab273737** (knockout Caco-2 cell lysate **ab277340**). To generate this image, wild-type and TMPRSS2 knockout cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD)

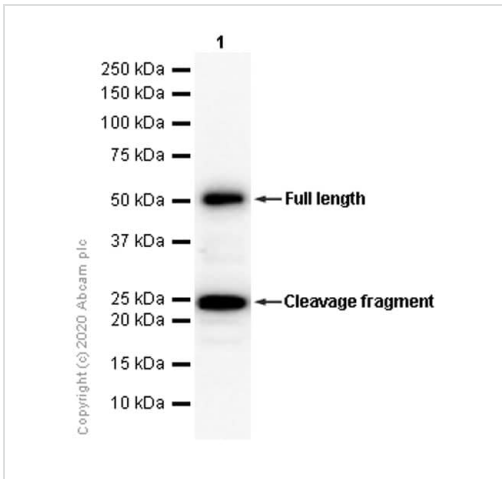
preabsorbed ([ab216776](#)) at 1/20000 dilution.

Anti-TMPRSS2 antibody [EPR3862] ([ab109131](#)) at 1/5000 dilution (Purified) + Human prostate lysate

Secondary

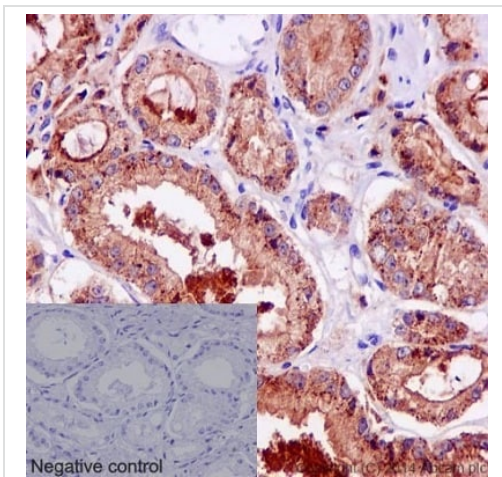
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 54 kDa



Western blot - Anti-TMPRSS2 antibody [EPR3862] - BSA and Azide free ([ab242384](#))

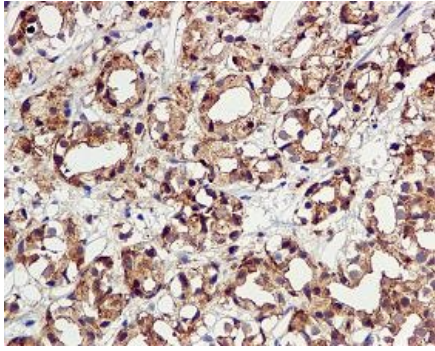
54kDa represents full-length TMPRSS2 and 25kDa is the cleaved form. The molecular weights observed are consistent with what have been described in the literature (PMID: 11245484).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS2 antibody [EPR3862] - BSA and Azide free ([ab242384](#))

This data was developed using [ab109131](#), the same antibody clone in a different buffer formulation.

[ab109131](#) staining TMPRSS2 in Human prostate adenocarcinoma tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed and paraffin-embedded, antigen retrieval was by heat mediation in Tris/EDTA buffer pH9. Samples were incubated with primary antibody (1/1000). An undiluted HRP-conjugated mouse anti-rabbit IgG was used as the secondary antibody. Tissue counterstained with Hematoxylin. PBS was used in the negative control rather than the Primary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS2 antibody [EPR3862] - BSA and Azide free (ab242384)

This data was developed using **ab109131**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human prostatic adenocarcinoma using **ab109131**, unpurified, at a dilution of 1/500.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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-TMPRSS2 antibody [EPR3862] - BSA and Azide free (ab242384)

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