

Anti-TMPRSS2 antibody [EPR3862] ab109131

敲除验证
重组
RabMAb

★★★★★
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概述

产品名称	Anti-TMPRSS2抗体[EPR3862]
描述	兔单克隆抗体[EPR3862] to TMPRSS2
宿主	Rabbit
经测试应用	适用于: WB, IHC-P 不适用于: ELISA, Flow Cyt or ICC/IF
种属反应性	与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Human prostatic adenocarcinoma tissue; WB: Human prostate lysate.
常规说明	<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>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 59% PBS, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR3862
同种型	IgG

“应用说明”部分下显示的仅为推荐的起始稀释度；实际最佳的稀释度/浓度应由使用者检定。

应用说明 Is unsuitable for ELISA, Flow Cyt or ICC/IF.

序列相似性	<p>Belongs to the peptidase S1 family.</p> <p>Contains 1 LDL-receptor class A domain.</p> <p>Contains 1 peptidase S1 domain.</p> <p>Contains 1 SRCR domain.</p>
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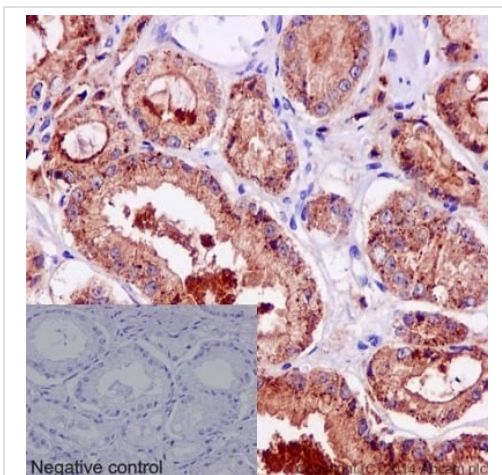
Predicted band size: 54 kDa

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.

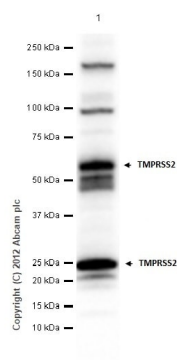
In Western blot, ab109131 was shown to bind specifically to TMPRSS2. A band was observed at 55, 25 kDa in wild-type LNCaP and at 25 kDa in Caco-2 cell lysates with no signal observed at this size in TMPRSS2 knockout LNCaP cell line [ab273745](#) (knockout LNCaP cell lysate [ab275499](#)) and TMPRSS2 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.



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] (ab109131)



Western blot - Anti-TMPRSS2 antibody [EPR3862]
(ab109131)

Anti-TMPRSS2 antibody [EPR3862] (ab109131) at 1/1000 dilution
+ LNCaP (Human prostate carcinoma epithelial cell) whole cell
lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 54 kDa

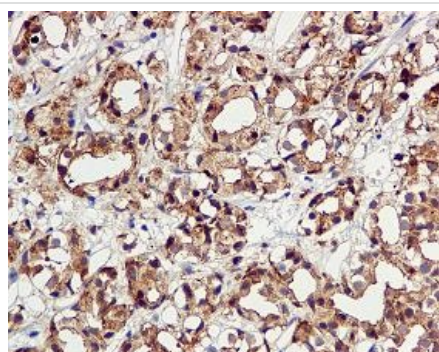
Observed band size: 25,54 kDa

Exposure time: 7 seconds

Blocking buffer and concentration: 5% NFDM/TBST

Diluting buffer and concentration: 5% NFDM /TBST

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] (ab109131)

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] (ab109131)

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