

Product datasheet

Anti-TMPRSS3 antibody [EPR7048] ab167160

Recombinant RabMAb

10 Images

Overview

Product name	Anti-TMPRSS3 antibody [EPR7048]
Description	Rabbit monoclonal [EPR7048] to TMPRSS3
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF Unsuitable for: IP
Species reactivity	Reacts with: Rat, Human
Immunogen	Synthetic peptide within Human TMPRSS3 (extracellular). The exact sequence is proprietary.
Positive control	HeLa, PC-12 and A431 cell lysates. Human thyroid gland papillary carcinoma tissue. A431 cells.
General notes	<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> <p>Mouse: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant</p>
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR7048
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab167160 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

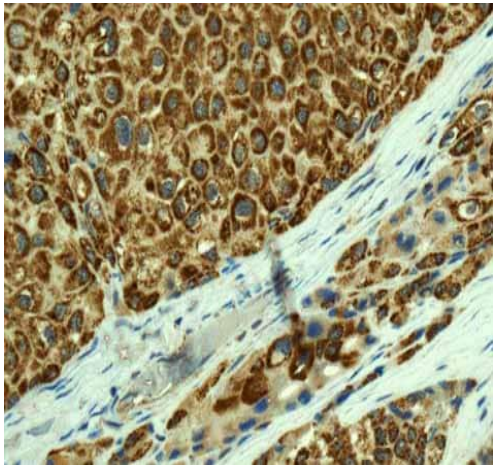
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 49 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/250 - 1/500.

Application notes Is unsuitable for IP.

Target

Function	Probable serine protease that play a role in hearing. Acts as a permissive factor for cochlear hair cells survival and activation at the onset of hearing and is required for saccular hair cell survival (By similarity). Activates ENaC (in vitro).
Tissue specificity	Expressed in many tissues including fetal cochlea. Isoform T is found at increased levels in some carcinomas.
Involvement in disease	Defects in TMPRSS3 are the cause of deafness autosomal recessive type 8 (DFNB8) [MIM:601072]. DFNA8 is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information. Defects in TMPRSS3 are the cause of deafness autosomal recessive type 10 (DFNB10) [MIM:605316].
Sequence similarities	Belongs to the peptidase S1 family. Contains 1 LDL-receptor class A domain. Contains 1 peptidase S1 domain. Contains 1 SRCR domain.
Post-translational modifications	Undergoes autoproteolytic activation.
Cellular localization	Endoplasmic reticulum membrane.

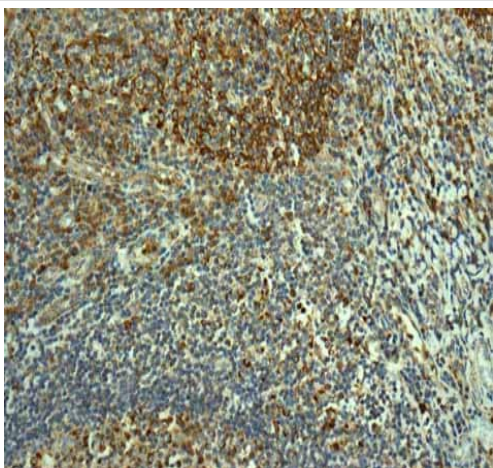
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS3 antibody [EPR7048] (ab167160)

ab167160 showing +ve staining in Human cervical carcinoma.

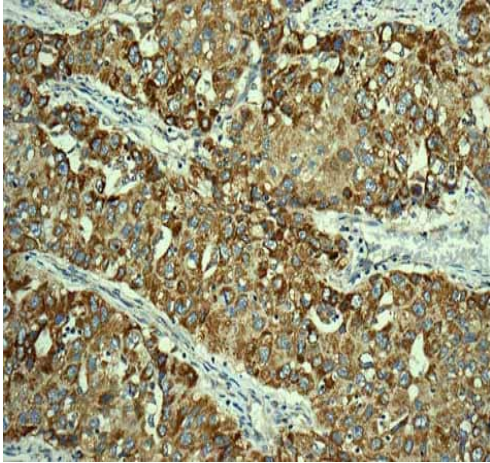
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS3 antibody [EPR7048] (ab167160)

ab167160 showing +ve staining in Human normal tonsil.

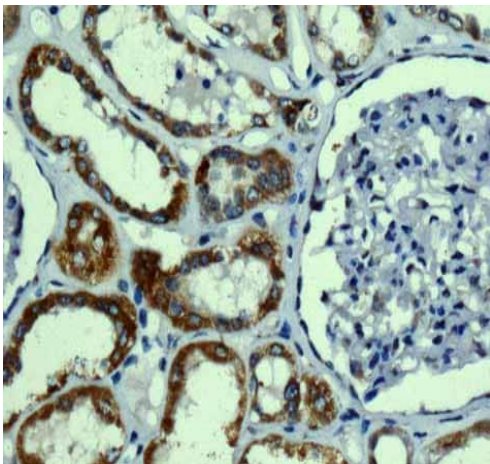
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS3 antibody [EPR7048] (ab167160)

ab167160 showing +ve staining in Human lung adenocarcinoma.

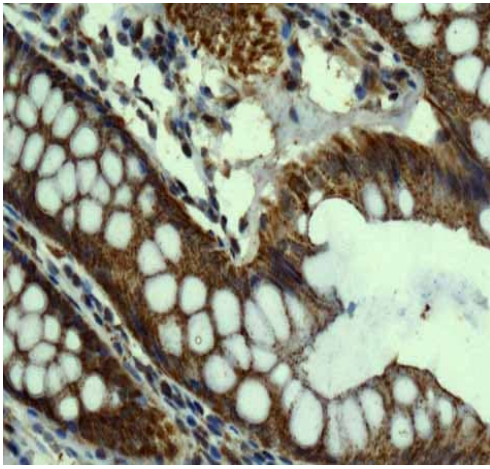
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS3 antibody [EPR7048] (ab167160)

ab167160 showing +ve staining in Human normal kidney.

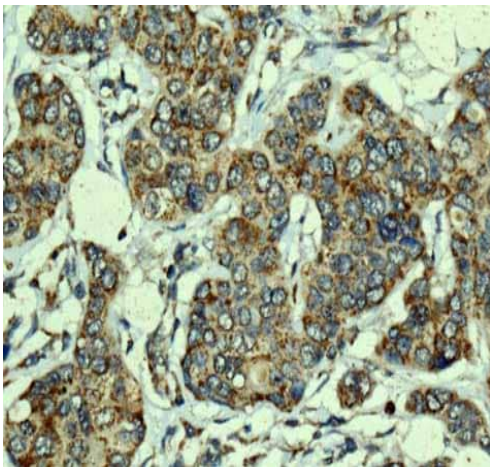
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS3 antibody [EPR7048] (ab167160)

ab167160 showing +ve staining in Human normal colon.

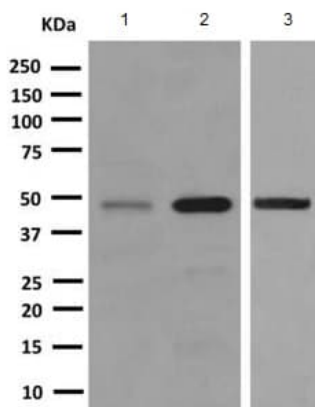
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS3 antibody [EPR7048] (ab167160)

ab167160 showing +ve staining in Human breast carcinoma.

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



Western blot - Anti-TMPRSS3 antibody [EPR7048]
(ab167160)

All lanes : Anti-TMPRSS3 antibody [EPR7048] (ab167160) at
1/1000 dilution

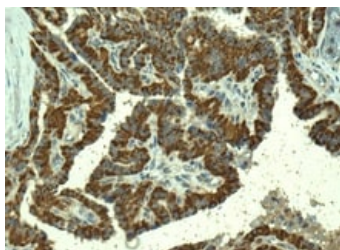
Lane 1 : HeLa cell lysate

Lane 2 : PC-12 cell lysate

Lane 3 : A431 cell lysate

Lysates/proteins at 10 µg per lane.

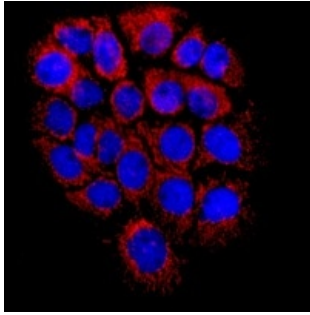
Predicted band size: 49 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-TMPRSS3 antibody
[EPR7048] (ab167160)

Immunohistochemical analysis of paraffin embedded Human thyroid
gland papillary carcinoma tissue labeling TMPRSS3 with ab167160
at a 1/100 dilution.

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



Immunocytochemical analysis of A431 cells labeling TMPRSS3 with ab167160 at a 1/250 dilution.

Immunocytochemistry/ Immunofluorescence - Anti-TMPRSS3 antibody [EPR7048] (ab167160)

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

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

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