

Anti-TMPRSS3 antibody [EPR7048] - BSA and Azide free ab249403

Recombinant RabMAb

10 Images

Overview

Product name	Anti-TMPRSS3 antibody [EPR7048] - BSA and Azide free
Description	Rabbit monoclonal [EPR7048] to TMPRSS3 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF Unsuitable for: IP
Species reactivity	Reacts with: Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab249403 is the carrier-free version of ab167160.</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> <p>Mouse: We have preliminary internal testing data to indicate this antibody may not react with this</p>

species. Please contact us for more information.

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	EPR7048
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab249403 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. Predicted molecular weight: 49 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.

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.

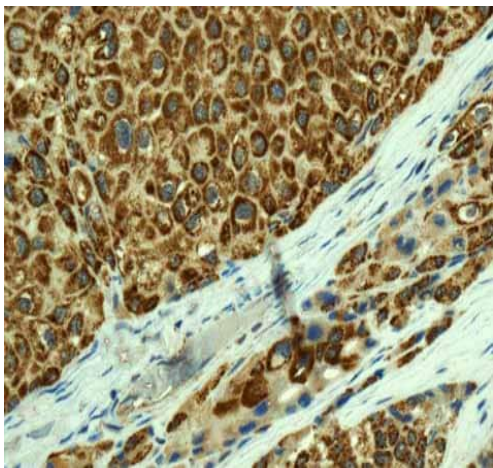
Post-translational modifications

Undergoes autoproteolytic activation.

Cellular localization

Endoplasmic reticulum membrane.

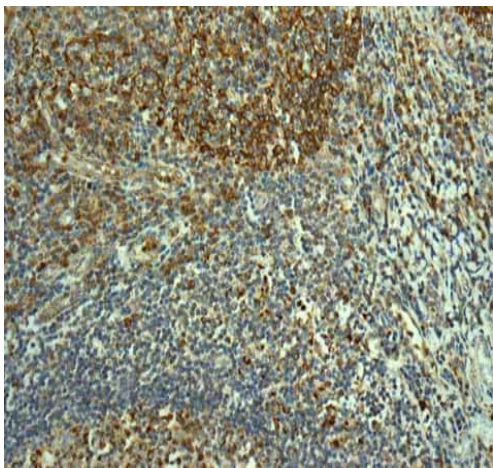
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS3 antibody [EPR7048] - BSA and Azide free (ab249403)

This data was developed using [ab167160](#), the same antibody clone in a different buffer formulation.

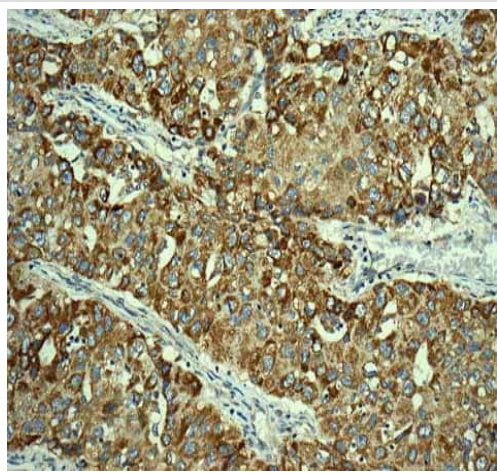
[ab167160](#) showing +ve staining in Human cervical carcinoma. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS3 antibody [EPR7048] - BSA and Azide free (ab249403)

This data was developed using [ab167160](#), the same antibody clone in a different buffer formulation.

[ab167160](#) showing +ve staining in Human normal tonsil. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

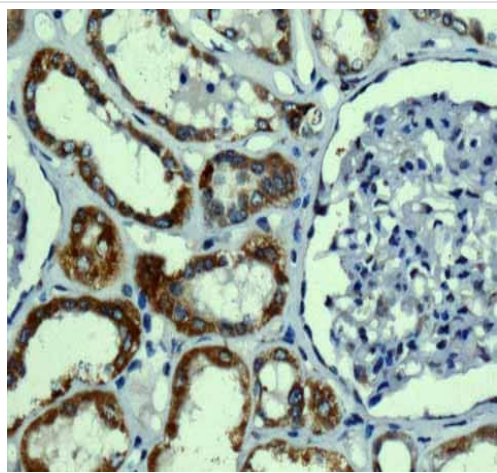


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS3 antibody [EPR7048] - BSA and Azide free (ab249403)

This data was developed using **ab167160**, the same antibody clone in a different buffer formulation.

ab167160 showing +ve staining in Human lung adenocarcinoma.

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

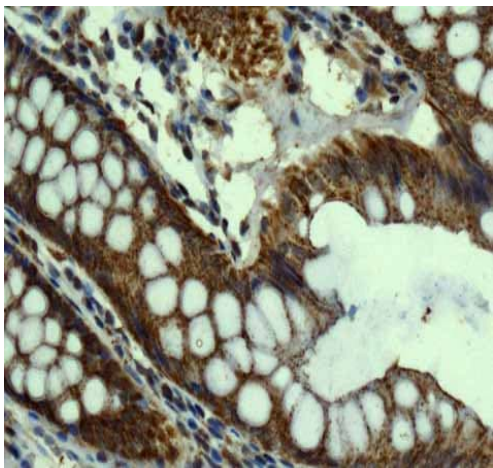


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS3 antibody [EPR7048] - BSA and Azide free (ab249403)

This data was developed using **ab167160**, the same antibody clone in a different buffer formulation.

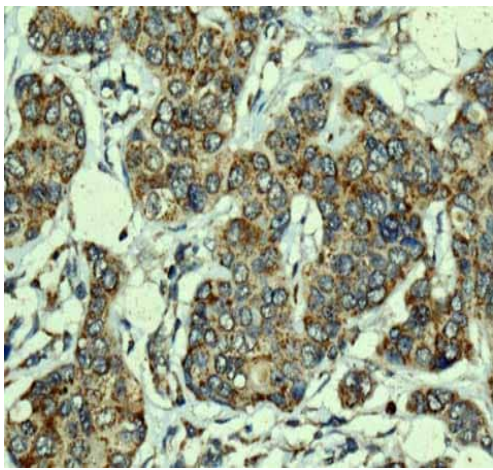
ab167160 showing +ve staining in Human normal kidney. Perform

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



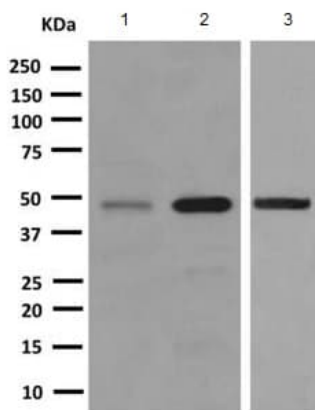
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS3 antibody [EPR7048] - BSA and Azide free (ab249403)

This data was developed using **ab167160**, the same antibody clone in a different buffer formulation. **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] - BSA and Azide free (ab249403)

This data was developed using **ab167160**, the same antibody clone in a different buffer formulation. **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] - BSA and Azide free (ab249403)

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

Lane 1 : HeLa cell lysate

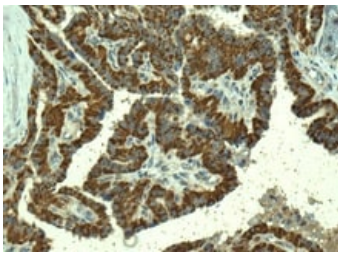
Lane 2 : PC-12 cell lysate

Lane 3 : A431 cell lysate

Lysates/proteins at 10 µg per lane.

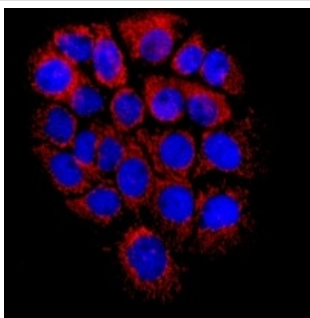
Predicted band size: 49 kDa

This data was developed using **ab167160**, the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TMPRSS3 antibody [EPR7048] - BSA and Azide free (ab249403)

This data was developed using **ab167160**, the same antibody clone in a different buffer formulation. 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.



Immunocytochemistry/ Immunofluorescence - Anti-TMPRSS3 antibody [EPR7048] - BSA and Azide free (ab249403)

This data was developed using **ab167160**, the same antibody clone in a different buffer formulation. Immunocytochemical analysis of A431 cells labeling TMPRSS3 with **ab167160** at a 1/250 dilution.

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-TMPRSS3 antibody [EPR7048] - BSA and Azide free (ab249403)

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