


Product datasheet

Anti-MMP23 antibody [EPR7769] ab181118

Recombinant RabMAb

5 Images

Overview

Product name	Anti-MMP23 antibody [EPR7769]
Description	Rabbit monoclonal [EPR7769] to MMP23
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human fetal brain tissue lysate, Calu 3 cell lysate, SK OV 3 cell lysate, Human testis tissue, A549 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>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7769
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab181118 in the following tested applications.

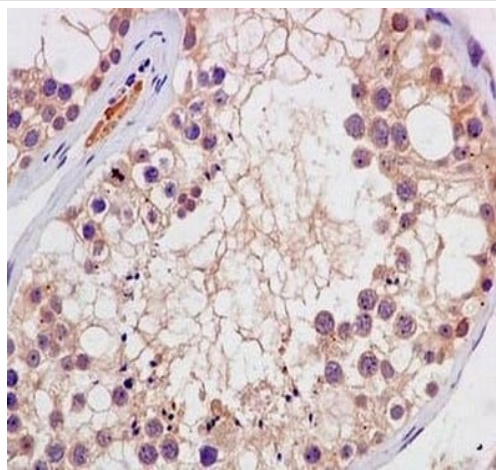
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 56 kDa (predicted molecular weight: 44 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/50 - 1/100.

Target

Function	Protease. May regulate the surface expression of some potassium channels by retaining them in the endoplasmic reticulum.
Tissue specificity	Predominantly expressed in ovary, testis and prostate.
Sequence similarities	Belongs to the peptidase M10A family. Contains 1 Ig-like C2-type (immunoglobulin-like) domain.
Domain	The toxin-like domain associates with, and blocks several potassium channels in the nanomolar to low micromolar range. The relative affinity is Kv1.6 > Kv1.3 > Kv1.1 = Kv3.2 > Kv1.4.
Post-translational modifications	N-glycosylated. Proteolytic cleavage might yield an active form.
Cellular localization	Endoplasmic reticulum membrane. Membrane. A secreted form produced by proteolytic cleavage may also exist.

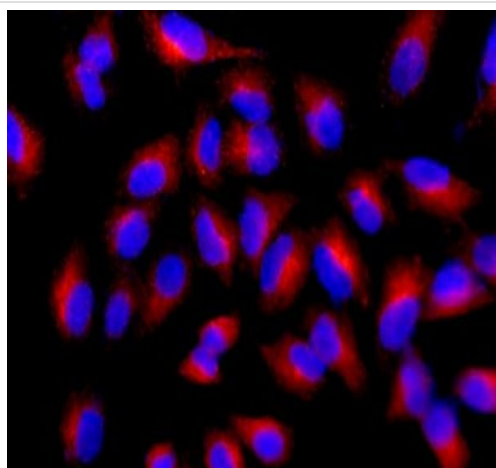
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP23 antibody [EPR7769] (ab181118)

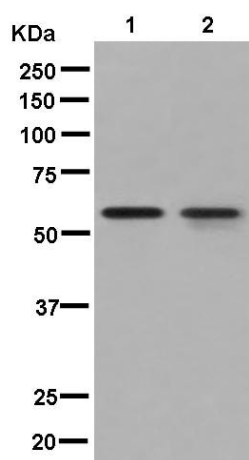
Immunohistochemical analysis of paraffin embedded Human testis tissue labeling MMP23 with ab181118 at 1/250.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-MMP23 antibody [EPR7769] (ab181118)

Immunofluorescent analysis of 4% paraformaldehyde fixed A549 cells labeling MMP23 with ab181118 at 1/100 followed by fluorescence labelled Goat anti-rabbit IgG at 1/200 and counterstained with Dapi.



Western blot - Anti-MMP23 antibody [EPR7769] (ab181118)

All lanes : Anti-MMP23 antibody [EPR7769] (ab181118) at 1/1000 dilution

Lane 1 : Calu 3 cell lysate

Lane 2 : SK OV 3 cell lysate

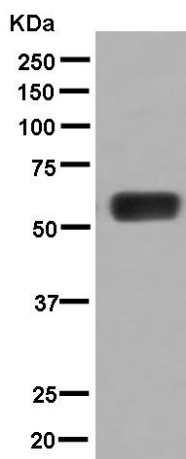
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated antibody at 1/1000 dilution

Predicted band size: 44 kDa

Observed band size: 56 kDa



Western blot - Anti-MMP23 antibody [EPR7769] (ab181118)

Anti-MMP23 antibody [EPR7769] (ab181118) at 1/1000 dilution + Human fetal brain tissue lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab136636](#)) at 1/500 dilution

Predicted band size: 44 kDa

Observed band size: 56 kDa

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-MMP23 antibody [EPR7769] (ab181118)

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

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