


Product datasheet

Anti-Matrin 3 antibody [EPR10634(B)] ab151739

KO VALIDATED Recombinant RabMAB

★★★★★ [3 Abreviews](#) [4 References](#) [7 Images](#)

Overview

Product name	Anti-Matrin 3 antibody [EPR10634(B)]
Description	Rabbit monoclonal [EPR10634(B)] to Matrin 3
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, IP Unsuitable for: Flow Cyt
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	WB: Fetal kidney, HeLa, MCF-7, and HepG2 cell lysates. IHC: Human colon and endometrial carcinoma tissue. IF: MCF-7 cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here . Our RabMAB [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAB[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal

Clone number EPR10634(B)

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab151739 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)	1/10000 - 1/50000. Predicted molecular weight: 95 kDa.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF	★★★★★ (2)	1/100 - 1/250.
IP		1/2000.

Application notes Is unsuitable for Flow Cyt.

Target

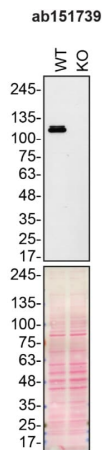
Function May play a role in transcription or may interact with other nuclear matrix proteins to form the internal fibrogranular network. In association with the SFPQ-NONO heteromer may play a role in nuclear retention of defective RNAs.

Involvement in disease Defects in MATR3 are the cause of myopathy distal type 2 (MPD2) [MIM:606070]; also called vocal cord and pharyngeal dysfunction with distal myopathy (VCPDM). MPD2 is a muscular disorder characterized by distal weakness, with onset in hands and feet, associated with vocal cord and pharyngeal weakness causing a nasal voice and swallowing disorders.

Sequence similarities Contains 1 matrin-type zinc finger.
Contains 2 RRM (RNA recognition motif) domains.

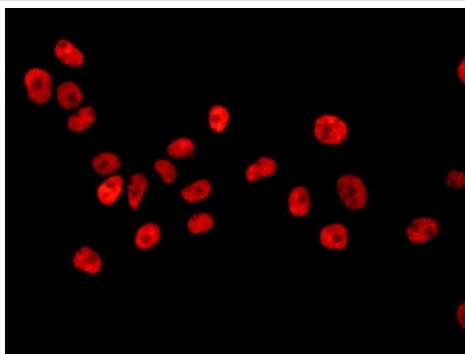
Cellular localization Nucleus matrix.

Images



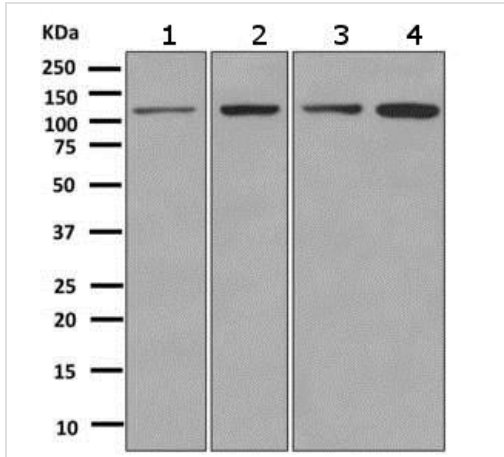
Western blot - Anti-Matrin 3 antibody [EPR10634(B)]
(ab151739)

ab151739 was shown to react with MATR3 in wild-type HAP1 cells in Western blot with loss of signal observed in a MATR3 knockout cell line. Wild-type HAP1 and MATR3 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 5% milk in TBST for 1 hr before incubation with ab151739 overnight at 4 °C at a 1/10000 dilution. Blots were incubated with goat anti-rabbit HRP secondary antibodies at 0.2 µg/ml before imaging. These data were provided by YCharOS Inc., an open science company with the mission of characterizing commercially available antibody reagents for all human proteins. Abcam and YCharOS are working together to help address the reproducibility crisis by enabling the life science community to better evaluate commercially available antibodies.



Immunocytochemistry/ Immunofluorescence - Anti-
Matrin 3 antibody [EPR10634(B)] (ab151739)

Immunofluorescence analysis of MCF-7 cells labeling Matrin 3 with ab151739 at 1/100.



Western blot - Anti-Matrin 3 antibody [EPR10634(B)] (ab151739)

All lanes : Anti-Matrin 3 antibody [EPR10634(B)] (ab151739) at 1/10000 dilution

Lane 1 : Human fetal kidney tissue lysate

Lane 2 : HeLa cell lysate

Lane 3 : MCF-7 cell lysate

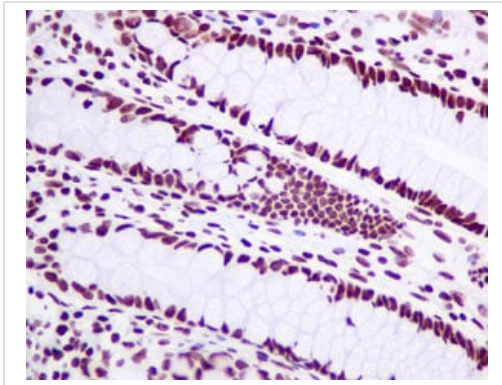
Lane 4 : HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Standard HRP labeled goat anti-rabbit at 1/2000 dilution

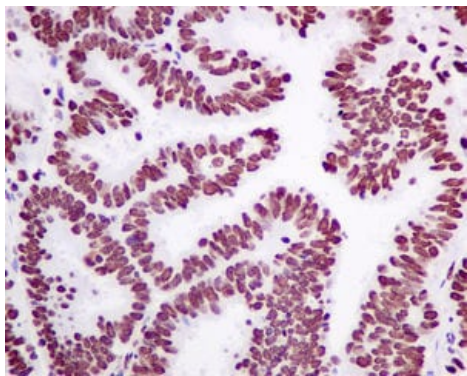
Predicted band size: 95 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Matrin 3 antibody [EPR10634(B)] (ab151739)

Immunohistochemical analysis of paraffin-embedded human colon tissue labeling Matrin 3 with ab151739 at 1/50.

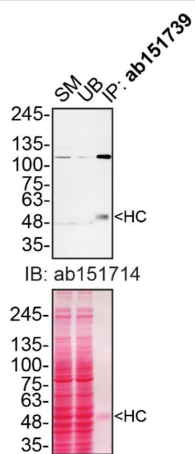
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Matrin 3 antibody
[EPR10634(B)] (ab151739)

Immunohistochemical analysis of paraffin-embedded endometrial carcinoma labeling Matrin 3 with ab151739 at 1/50.

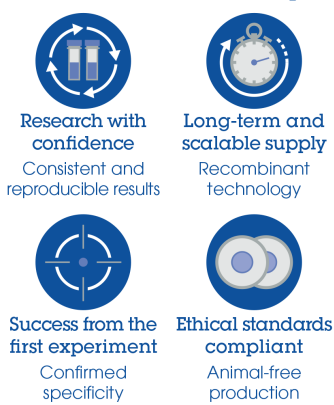
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-Matrin 3 antibody
[EPR10634(B)] (ab151739)

Immunoprecipitation of MATR3 in HAP1 cells. Lysates were prepared and immunoprecipitation was performed using 2.0µg of ab151739 pre-coupled to prot.A-Sepharose beads. Samples were washed and processed for western blot with **ab151714** at 1/2000. SM=10% starting material; UB=10% unbound fraction; IP=immunoprecipitate. These data were provided by YCharOS Inc., an open science company with the mission of characterizing commercially available antibody reagents for all human proteins. Abcam and YCharOS are working together to help address the reproducibility crisis by enabling the life science community to better evaluate commercially available antibodies.

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-Matrin 3 antibody [EPR10634(B)] (ab151739)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors