abcam

Product datasheet

Anti-ATOX1 antibody [EPR10352] ab154179

KO VALIDATED Recombinant RabMAb

2 Abreviews 5 References 6 Images

Overview

Product name	Anti-ATOX1 antibody [EPR10352]
Description	Rabbit monoclonal [EPR10352] to ATOX1
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, IP **Unsuitable for:** Flow Cyt or ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HepG2, HeLa and 293T cell lysates. IHC-P: Human prostatic hyperplasia tissue IP: HeLa.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - 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**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
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	EPR10352
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab154179 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	★★★★★ **(2)**	1/1000 - 1/10000. Predicted molecular weight: 7 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		1/100 - 1/500.

Application notes Is unsuitable for Flow Cyt or ICC/IF.

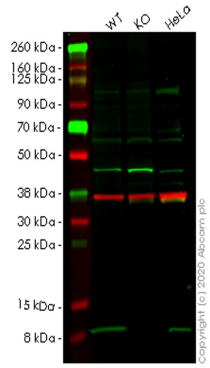
Target

Function Could bind and deliver cytosolic copper to the copper ATPase proteins. May be important in cellular antioxidant defense.

Tissue specificity Ubiquitous.

Sequence similarities Belongs to the ATX1 family.
Contains 1 HMA domain.

Images



Western blot - Anti-ATOX1 antibody [EPR10352] (ab154179)

All lanes : Anti-ATOX1 antibody [EPR10352] (ab154179) at 1/500 dilution

Lane 1 : Wild-type HEK293T cell lysate
Lane 2 : ATOX1 knockout HEK293T cell lysate
Lane 3 : HeLa cell lysate

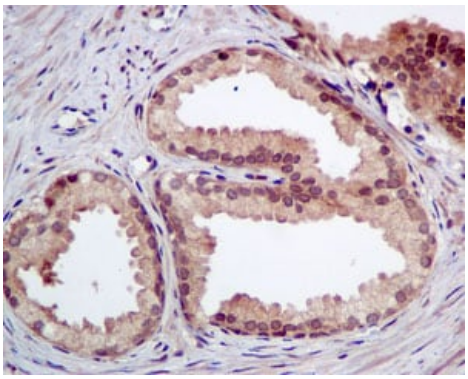
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 7 kDa
Observed band size: 7 kDa

Lanes 1-4: Merged signal (red and green). Green - ab154179 observed at 7 kDa. Red - loading control **ab8245** observed at 36 kDa.

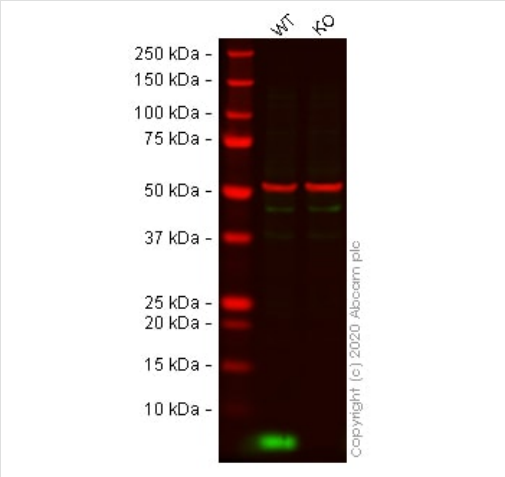
ab154179 Anti-ATOX1 antibody [EPR10352] was shown to specifically react with ATOX1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266651** (knockout cell lysate **ab257849**) was used. Wild-type and ATOX1 knockout samples were subjected to SDS-PAGE. ab154179 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATOX1 antibody [EPR10352] (ab154179)

Immunohistochemical analysis of paraffin-embedded Human prostatic hyperplasia tissue labeling ATOX1 with ab154179 at 1/100 dilution.

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



Western blot - Anti-ATOX1 antibody [EPR10352] (ab154179)

All lanes : Anti-ATOX1 antibody [EPR10352] (ab154179) at 1/1000 dilution

Lane 1 : Wild-type HEK-293 cell lysate
Lane 2 : ATOX1 knockout HEK-293T cell lysate

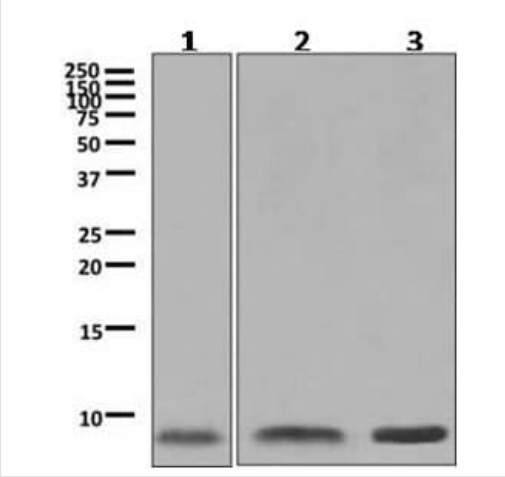
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 7 kDa
Observed band size: 7 kDa

Lanes 1 - 2: Merged signal (red and green). Green - ab154179 observed at 7 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A] observed at 55kDa.

ab154179 was shown to react with ATOX1 in HEK-293 wild-type cells in western blot with loss of signal observed in ATOX1 knockout sample. HEK-293 wild-type and ATOX1 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab154179 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A] overnight at 4°C at a 1 in 1000 Dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-ATOX1 antibody [EPR10352] (ab154179)

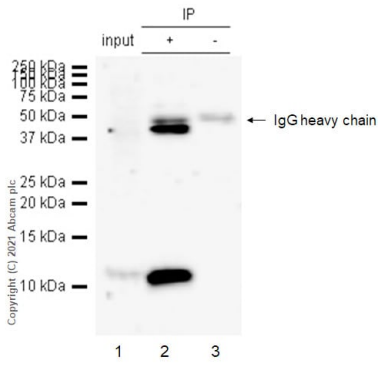
All lanes : Anti-ATOX1 antibody [EPR10352] (ab154179) at 1/1000 dilution

Lane 1 : HepG2 cell lysates
Lane 2 : HeLa cell lysates
Lane 3 : 293T cell lysates

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 7 kDa



Immunoprecipitation - Anti-ATOX1 antibody [EPR10352] (ab154179)

ATOX1 was immunoprecipitated from 0.35 mg HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg with 154179 at 1/20 dilution (2µg). VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/5000 dilution.

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg

Lane 2: ab154179 IP in HeLa whole cell lysate

Lane 3:Rabbit monoclonal IgG (**ab172730**) instead of ab154179 in HeLa whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Anti-ATOX1 antibody [EPR10352] (ab154179)

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