

Product datasheet

Anti-PON2 antibody [EPR15295-82] ab183710

KO **VALIDATED** Recombinant RabMAb[®]

★★★★★ [3 Abreviews](#) [6 References](#) [5 Images](#)

Overview

Product name	Anti-PON2 antibody [EPR15295-82]
Description	Rabbit monoclonal [EPR15295-82] to PON2
Host species	Rabbit
Specificity	Based on the sequence analysis, ab183710 recognizes three isoforms with the predicted MWts of 39KDa, 39KDa and 38KDa, respectively.
Tested applications	Suitable for: WB, IHC-P, IP
Species reactivity	Reacts with: Human Does not react with: Mouse, Rat
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, HepG2, A431 and U87-MG cell lysates. IHC-P: Human kidney tissues.
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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR15295-82
Isotype	IgG

Applications

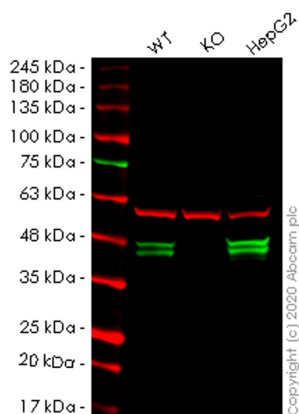
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab183710 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/10000 - 1/50000. Detects a band of approximately 39, 41 kDa (predicted molecular weight: 39 kDa).
IHC-P	★★★★★ (1)	1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/50 - 1/70.

Target

Function	Capable of hydrolyzing lactones and a number of aromatic carboxylic acid esters. Has antioxidant activity. Is not associated with high density lipoprotein. Prevents LDL lipid peroxidation, reverses the oxidation of mildly oxidized LDL, and inhibits the ability of MM-LDL to induce monocyte chemotaxis.
Tissue specificity	Widely expressed with highest expression in liver, lung, placenta, testis and heart.
Sequence similarities	Belongs to the paraoxonase family.
Post-translational modifications	The signal sequence is not cleaved.
Cellular localization	Membrane.

Images



Western blot - Anti-PON2 antibody [EPR15295-82] (ab183710)

All lanes : Anti-PON2 antibody [EPR15295-82] (ab183710) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : PON2 knockout HeLa cell lysate

Lane 3 : HepG2 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

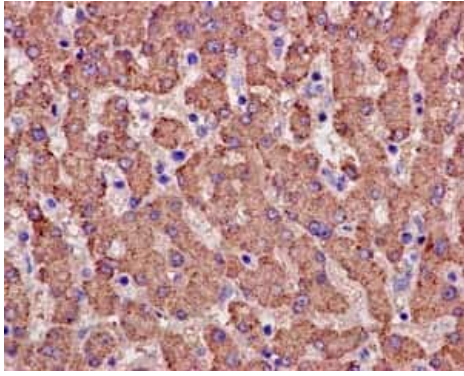
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

Predicted band size: 39 kDa

Observed band size: 39,41 kDa

Lanes 1-3: Merged signal (red and green). Green - ab183710 observed at 39,41 kDa. Red - loading control [ab7291](#) observed at 50 kDa.

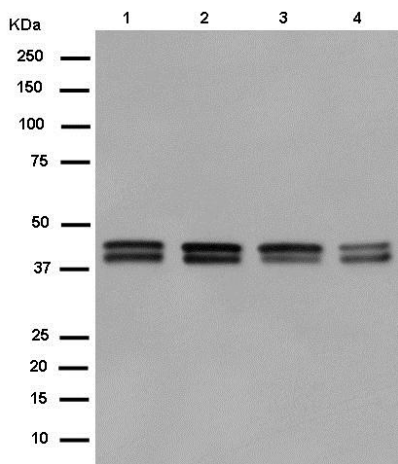
ab183710 Anti-PON2 antibody [EPR15295-82] was shown to specifically react with PON2 in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab265927](#) (knockout cell lysate [ab258128](#)) was used. Wild-type and PON2 knockout samples were subjected to SDS-PAGE. ab183710 and Anti-alpha Tubulin antibody [DM1A] - Loading Control ([ab7291](#)) were incubated overnight at 4°C at 1 in 1000 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-PON2 antibody [EPR15295-82] (ab183710)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling PON2 with ab183710 at 1/100 dilution followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.

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



Western blot - Anti-PON2 antibody [EPR15295-82] (ab183710)

All lanes : Anti-PON2 antibody [EPR15295-82] (ab183710) at 1/20000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : HepG2 cell lysate

Lane 3 : A431 cell lysate

Lane 4 : U87-MG cell lysate

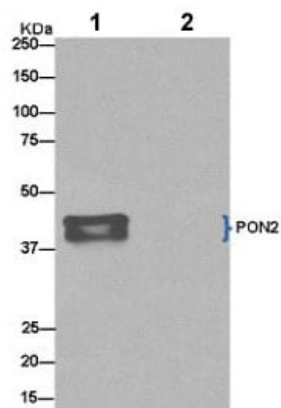
Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 39 kDa

Observed band size: 39,41 kDa



Western blot analysis of PON2 in HepG2 cell lysate

immunoprecipitated with ab183710 at 1/50 dilution (Lane 1). Lane 2: TBS instead of HepG2 lysates.

Secondary: Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1500 dilution.

Immunoprecipitation - Anti-PON2 antibody
[EPR15295-82] (ab183710)

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-PON2 antibody [EPR15295-82] (ab183710)

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

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