abcam

Product datasheet

Anti-LOXL2 antibody [EPR12733] - C-terminal ab179810

KO VALIDATED Recombinant RabMAb

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Overview

Product name	Anti-LOXL2 antibody [EPR12733] - C-terminal
Description	Rabbit monoclonal [EPR12733] to LOXL2 - C-terminal
Host species	Rabbit
Specificity	Our lab has been unable to use this product successfully in IHC-P and so we cannot guarantee that it will work in this application. However, some customers have been successful with this antibody in IHC-P.
Tested applications	**Suitable for:** WB **Unsuitable for:** IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide within Human LOXL2 aa 750 to the C-terminus (C terminal) (Cysteine residue). The exact sequence is proprietary. Database link: **Q9Y4K0**
Positive control	WB: MDA-MB-435, A431, U87-MG, and HeLa cell lysates.
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**.

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: 7.20 Preservative: 0.01% Sodium azide

	Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12733
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab179810 in the following tested applications.

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

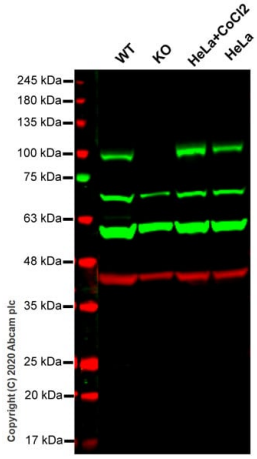
Application	Abreviews	Notes
WB	★★★★☆ (2)	1/200 - 1/1000. Predicted molecular weight: 87 kDa.

Application notes Is unsuitable for IP.

Target

Tissue specificity	Expressed in many tissues. Highest expression in reproductive tissues, placenta, uterus and prostate.
Sequence similarities	Belongs to the lysyl oxidase family. Contains 4 SRCR domains.
Post-translational modifications	The lysine tyrosylquinone cross-link (LTQ) is generated by condensation of the epsilon-amino group of a lysine with a topaquinone produced by oxidation of tyrosine.
Cellular localization	Secreted > extracellular space.

Images



Western blot - Anti-LOXL2 antibody [EPR12733] - C-terminal (ab179810)

All lanes : Anti-LOXL2 antibody [EPR12733] - C-terminal (ab179810) at 1/500 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : LOXL2 knockout HeLa cell lysate
Lane 3 : HeLa treated with 0.5nM CoCl2 for 6 hours whole cell lysate
Lane 4 : Untreated HeLa cell lysate

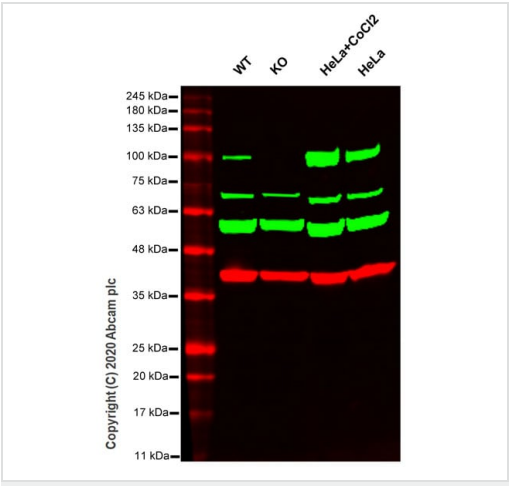
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 87 kDa
Observed band size: 105 kDa

Lanes 1-4: Merged signal (red and green). Green - ab179810 observed at 105 kDa. Red - loading control, **ab8245** observed at 37 kDa.

ab179810 Anti-LOXL2 antibody [EPR12733] - C-terminal was shown to specifically react with LOXL2 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab264807** (knockout cell lysate **ab257166**) was used. Wild-type and LOXL2 knockout samples were subjected to SDS-PAGE. ab179810 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 10000 dilution for 1 hour at room temperature before imaging.



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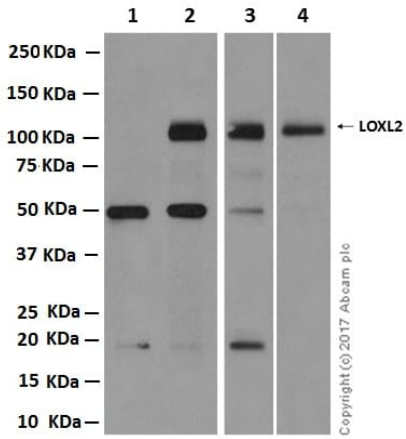
(knockout cell lysate **ab257168**) was used. Wild-type and LOXL2 knockout samples were subjected to SDS-PAGE. ab179810 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat 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 10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-LOXL2 antibody [EPR12733] - C-terminal (ab179810)

Lanes 1-2 & 4 : Anti-LOXL2 antibody [EPR12733] - C-terminal (ab179810) at 1/1000 dilution
Lane 3 : Anti-LOXL2 antibody [EPR12733] - C-terminal (ab179810) at 1/200 dilution

Lane 1 : MCF-7 (Human breast carcinoma) whole cell lysate
Lane 2 : MDA-MB-435 (Human ductal carcinoma) whole cell lysate
Lane 3 : A431 (Human epidermoid carcinoma) whole cell lysate
Lane 4 : U87-MG (Human glioblastoma) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 87 kDa
Observed band size: 105 kDa

Exposure time:

Lane 1-3: 3min
Lane 4: 1min

Blocking/Diluting buffer and concentration 5% NFDM /TBST

MCF-7 lack LOXL2 expression (PMID: 19330836, PMID:12154058 and PMID: 27655685)

Anti-LOXL2 antibody [EPR12733] - C-terminal (ab179810)

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