abcam

Product datasheet

Anti-LOXL2 antibody ab96233

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Overview

Product name	Anti-LOXL2 antibody
Description	Rabbit polyclonal to LOXL2
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat, Cow
Immunogen	Recombinant fragment corresponding to Human LOXL2. Recombinant fragment, corresponding to a region within amino acids 454-712 of Human LOXL2. Database link: **Q9Y4K0**
Positive control	IHC-P: Mouse ovary tissue and human esophageal cancer tissue. WB: Human samples only: MDA-MB-231 cell line, 293T, A431 and H1299 whole cell lysates, HeLa cell lysate. ICC/IF: A431 cells.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 78% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab96233 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
ICC/IF	★★★★★ (2)	1/100 - 1/1000.
WB	★★★★★ (3)	1/500 - 1/10000. Predicted molecular weight: 87 kDa. Blocking: 5% non-fat milk in TBST at room temperature 60 minutes. Please ensure to include a positive control in your experiment, examples are included on this datasheet. **WB application is validated in human samples only.** **ab179810** can be used as an alternative product for WB using mouse samples
IHC-P	★★★★☆ (2)	1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

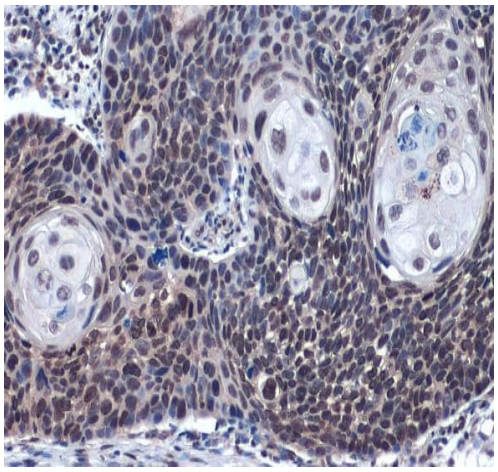
Tissue specificity Expressed in many tissues. Highest expression in reproductive tissues, placenta, uterus and prostate.

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.

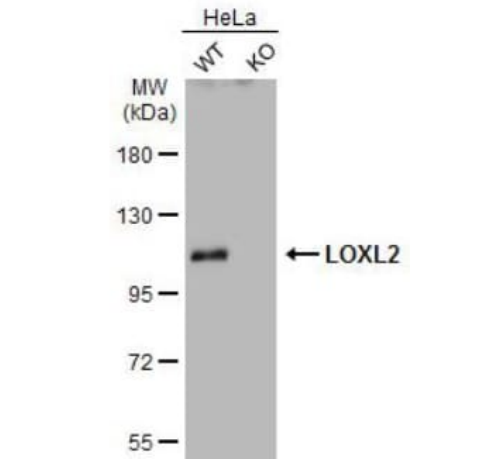
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LOXL2 antibody (ab96233)

Immunohistochemical analysis of Paraffin-embedded human esophageal carcinoma tissue labeling LOXL2 with ab96233 at 1/3000 dilution. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min (Cuisinart Electric Pressure Cooker #EPC-1200, choose "high pressure"). Endogenous peroxidase blocking: 3% H_2O_2, RT, 30min.

Blocking: 1.5% goat serum (dilute goat serum by 1xPBS), RT, 30 min. Primary antibody incubation: 4°C overnight. Secondary antibody incubation: ABC HRP Kit (Rabbit IgG), 1:200, RT, 30min. Washing condition: PBS, 2 x 5 mins. Chromogen system: DAB.



Western blot - Anti-LOXL2 antibody (ab96233)

All lanes : Anti-LOXL2 antibody (ab96233) at 1/500 dilution (4? overnight)

Lane 1 : WT HeLa cell lysate at 30 µg
Lane 2 : LOXL2 knockout (KO) HeLa cell lysate

Secondary
All lanes : HRP-conjugated anti-rabbit IgG antibody at 1/10000 dilution

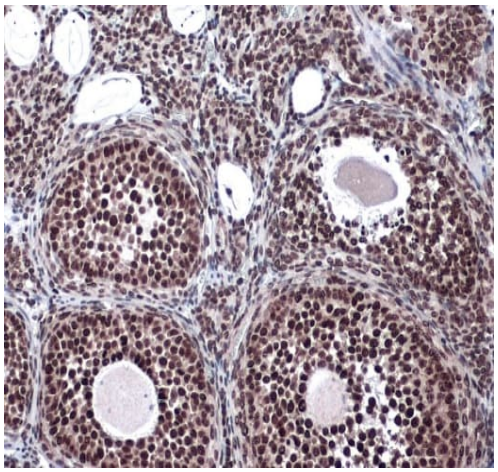
Developed using the ECL technique.

Predicted band size: 87 kDa

7.5% SDS-PAGE.

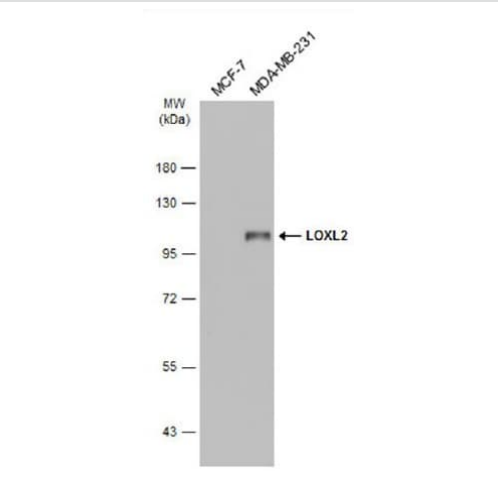
alpha Tubulin was used as a loading control and showed equal loading.

Running: 80V, 15min; 140V, 40 min. Transfer: Semi-dry, 18 V, 60 min (NC embrane). Blocking: 5% non-fat milk in TBST, RT, 60 minutes. Washing: 5 ml TBST, 4 x 5 min. ECL exposure.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LOXL2 antibody (ab96233)

Immunohistochemical analysis of paraffin-embedded mouse ovary tissue labeling LOXL2 with ab96233 at 1/500 dilution. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min (Cuisinart Electric Pressure Cooker #EPC-1200, choose "high pressure"). Endogenous peroxidase blocking: 3% H_2O_2, RT, 30min. Blocking: 1.5% goat serum (dilute goat serum by 1xPBS), RT, 30 min. Primary antibody incubation: 4°C overnight. Secondary antibody incubation: ABC HRP Kit (Rabbit IgG), 1:200, RT, 30min. Washing condition: PBS, 2 x 5 mins. Chromogen system: DAB.



Western blot - Anti-LOXL2 antibody (ab96233)

All lanes : Anti-LOXL2 antibody (ab96233) at 1/1000 dilution

Lane 1 : MCF7 cell line
Lane 2 : MDA-MB-231 cell line

Lysates/proteins at 30 µg per lane.

Secondary
All lanes : Rabbit IgG antibody (HRP) at 1/10000 dilution

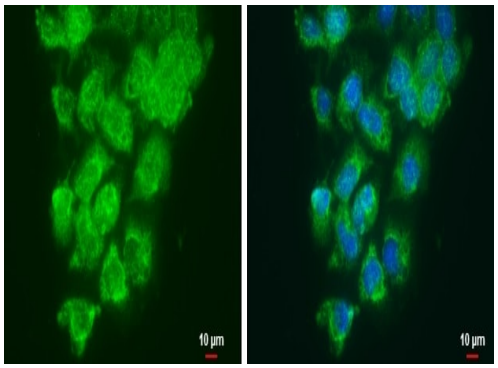
Developed using the ECL technique.

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

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

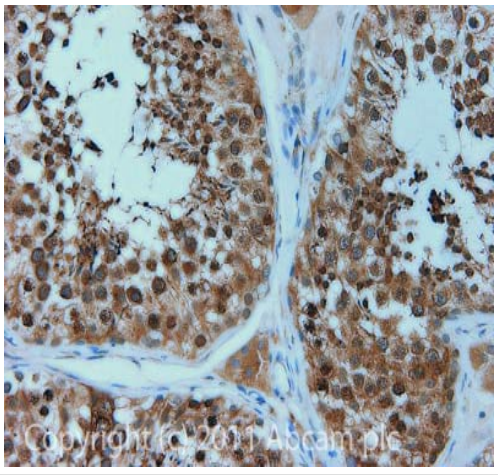
7.5% gel. Running: 80V, 15min; 140V, 40 min. Transfer: Semi-dry, 18 V, 60 min (Nitrocellulose membrane). Blocking: 5% non-fat milk in TBST, RT, 60 min. Primary antibody incubation: 4°C overnight. Washing: 5 ml TBST, 4 x 5 min. Exposure: Western blot HRP

substrate.



Immunocytochemistry/ Immunofluorescence - Anti-LOXL2 antibody (ab96233)

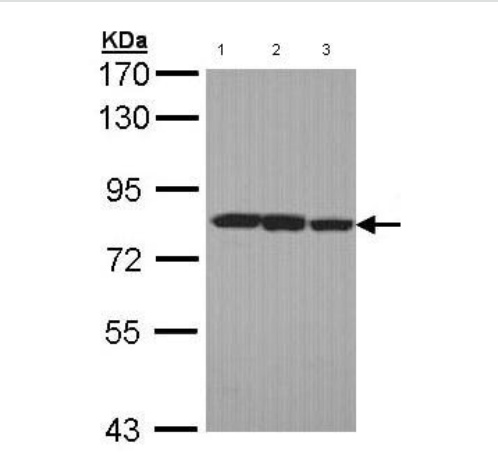
Immunocytochemistry/ Immunofluorescence analysis of A431 cells labeling LOXL2 with ab96233 at 1:500 (green). Cells were fixed in ice cold methanol for 5 minutes. Cells were co-stained with Hoechst 33342 (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LOXL2 antibody (ab96233)

IHC image of ab96233 staining in human testis formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab96233, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - Anti-LOXL2 antibody (ab96233)

All lanes : Anti-LOXL2 antibody (ab96233) at 1/1000 dilution

Lane 1 : 293T cell lysate
Lane 2 : A431 cell lysate
Lane 3 : H1299 cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 87 kDa

7.5% SDS-PAGE

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

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