abcam

ab219369

# Anti-LOX antibody [EPR4025] - Low endotoxin, Azide free

Recombinant | RabMAb | KO Validated

## Key facts

| | |
|---|---|
| **Isotype** | IgG |
| **Host species** | Rabbit |
| **Storage buffer** | pH: 7.2 - 7.4 Constituents: PBS |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | The exact immunogen used to generate this antibody is proprietary information. |
| **Carrier free** | Yes |
| **Clone number** | EPR4025 |
| **Purification technique** | Affinity purification Protein A |
| **Concentration** | 1.016 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

### IHC-P

**Tested**

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |

| | |
|---|---|
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## IP

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## WB

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | - |
| **Notes** | **For unpurified, use 1/1000 - 1/2000.** |

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | - |

| | |
|---|---|
| **Notes** | **For unpurified, use 1/1000 - 1/2000.** |

## ICC/IF

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## Flow Cyt (Intra)

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | ab199376- Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

### Expected

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## Target data

See full target information Protein-lysine 6-oxidase

| | |
|---|---|
| **Function** | Responsible for the post-translational oxidative deamination of peptidyl lysine residues in precursors to fibrous collagen and elastin (PubMed:26838787). Regulator of Ras expression. May play a role in tumor suppression. Plays a role in the aortic wall architecture (By similarity). |

## Storage

| | |
|---|---|
| **Shipped at conditions** | Blue Ice |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | +4°C |
| **Storage information** | Do Not Freeze |

## Notes

ab219369 is the carrier-free version of ab174316.

**Patented technology**

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

**What are the advantages of a recombinant monoclonal antibody?**

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 batch production

For more information, read more on recombinant antibodies.

**Conjugation ready**

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

**Compatibility**

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

**What does low endotoxin mean?**

Our low endotoxin, azide-free formats have low endotoxin level (1 EU/mg, determined by the TAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

We do not recommend this combination. It is not covered by our product promise.

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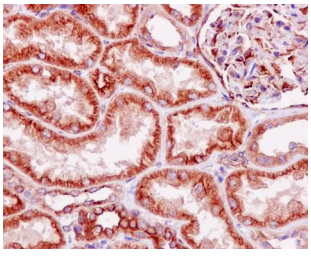
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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## 4 product images

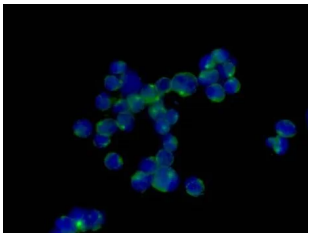


### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LOX antibody [EPR4025] - Low endotoxin, Azide free (ab219369)

LOX Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-LOX antibody

Immunohistochemical staining of paraffin embedded human kidney with purified ab174316 at a working dilution of 1 in 900. The secondary antibody used is a HRP polymer for rabbit IgG. The sample is counter-stained with hematoxylin. Antigen retrieval was perfomed using Tris-EDTA buffer pH 9.0.
This data was developed using the same antibody clone in a different buffer formulation containing PBS BSA glycerol and sodium azide (ab174316).

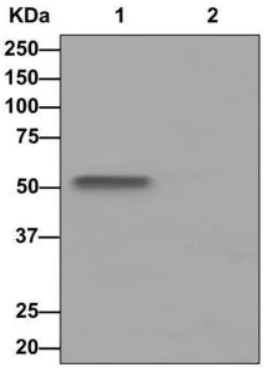
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### Immunocytochemistry/ Immunofluorescence - Anti-LOX antibody [EPR4025] - Low endotoxin, Azide free (ab219369)

LOX Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-LOX antibody

Immunofluorescence staining of Jurkat cells with purified ab174316 at a working dilution of 1 in 300 counter-stained with DAPI. The secondary antibody was Alexa Fluor® 488 goat anti rabbit used at a dilution of 1 in 200. The cells were fixed in 4% PFA.
This data was developed using the same antibody clone in a different buffer formulation containing PBS BSA glycerol and sodium azide (ab174316).

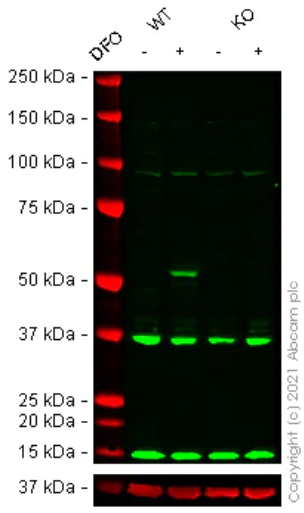



## Immunoprecipitation - Anti-LOX antibody [EPR4025] - Low endotoxin, Azide free (ab219369)

Western blot analysis on immunoprecipitation pellet from (Lane 1) WI-38 cells lysate or (Lane 2) 1X PBS (negative control) using unpurified ab174316 at a 1/10 dilution and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab174316).

All lanes:
Immunoprecipitation - Anti-LOX antibody [EPR4025] (ab174316)

Predicted band size: 47 kDa




## Western blot - Anti-LOX antibody [EPR4025] - Low endotoxin, Azide free (ab219369)

LOX Western blot staining using rabbit Anti-LOX antibody

False colour image of Western blot: Anti-LOX antibody [EPR4025] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (ab8245) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab174316 was shown to bind specifically to LOX. A band was observed at 52 kDa in wild-type HeLa cell lysates with no signal observed at this size in Lox knockout cell line ab261801 (knockout cell lysate ab256981). To generate this image, wild-type and Lox knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (ab216776) at 1/20000 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab174316).

All lanes:
Western blot - Anti-LOX antibody [EPR4025] (ab174316) at 1/1000 dilution

Lane 1:
Wild-type HeLa Vehicle Control DFO (0 mM, 24 h) cell lysate at 20 µg

Lane 2:
Wild-type HeLa Treated DFO (0.5 mM, 24 h) cell lysate at 20 µg

Lane 2:
Western blot - Human LOX knockout HeLa cell line (ab261801)

Lane 3:
LOX knockout HeLa Vehicle Control DFO (0 mM, 24 h) cell lysate at 20 µg

Lane 4:

LOX knockout HeLa Treated DFO (0.5 mM, 24 h) cell lysate at 20 µg

Performed under reducing conditions.

Predicted band size: 47 kDa

Observed band size: 52 kDa

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.