

Product datasheet

Anti-LOX antibody [EPR4025] - Low endotoxin, Azide free ab219369

Recombinant RabMAb

9 Images

Overview

Product name	Anti-LOX antibody [EPR4025] - Low endotoxin, Azide free
Description	Rabbit monoclonal [EPR4025] to LOX - Low endotoxin, Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, IP, Flow Cyt
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human LOX aa 350 to the C-terminus (Cysteine residue). The exact sequence is proprietary. Database link: P28300
Positive control	HeLa, Jurkat and WI-38 cell lysates. Human muscle tissue. HeLa cells. Immunoprecipitation pellet from WI-38 cells lysate.
General notes	ab219369 is a carrier-free antibody designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [Low endotoxin, azide-free formats](#) have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

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

This product is a [recombinant rabbit monoclonal antibody](#).

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 Constituent: PBS
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR4025
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab219369** in the following tested applications.

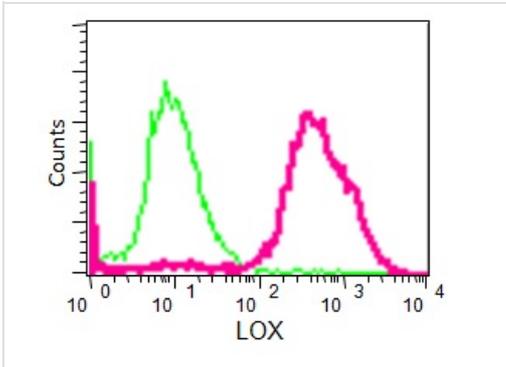
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 47 kDa. Can be blocked with LOX peptide (ab207571) .
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See protocols IHC antigen retrieval protocols .
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target

Function	Responsible for the post-translational oxidative deamination of peptidyl lysine residues in precursors to fibrous collagen and elastin. In addition to cross-linking of extracellular matrix proteins, may have a direct role in tumor suppression.
Tissue specificity	Heart, placenta, skeletal muscle, kidney, lung and pancreas.
Involvement in disease	Defects in LOX may be a cause of cutis laxa autosomal recessive type 1 (ARCL1) [MIM:219100].
Sequence similarities	Belongs to the lysyl oxidase family.
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.

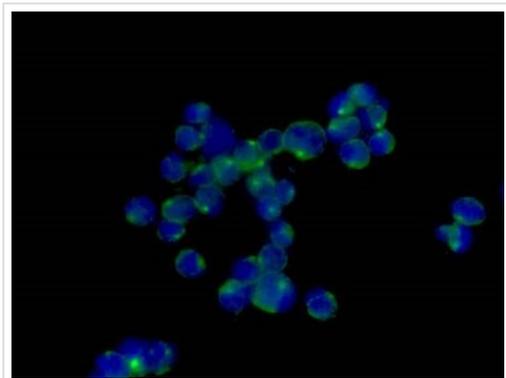
Images



Flow Cytometry - Anti-LOX antibody [EPR4025] - Low endotoxin, Azide free (ab219369)

Overlay histogram showing Jurkat cells fixed in 2% PFA and stained with purified [ab174316](#) at a dilution of 1 in 90 (pink line). The secondary antibody used was FITC goat anti-rabbit at a dilution of 1 in 150. Rabbit monoclonal IgG was used as an isotype control.

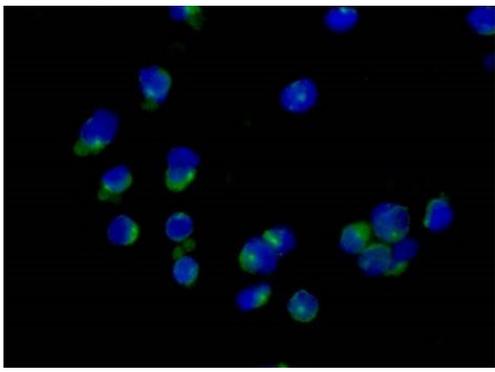
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab174316](#)).



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

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.

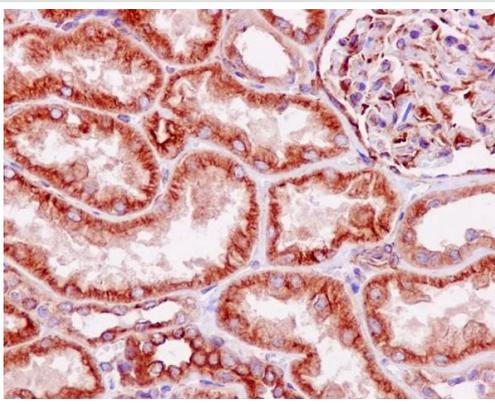
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab174316](#)).



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

Immunofluorescence staining of Jurkat cells with unpurified [ab174316](#) at a working dilution of 1 in 100, 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.

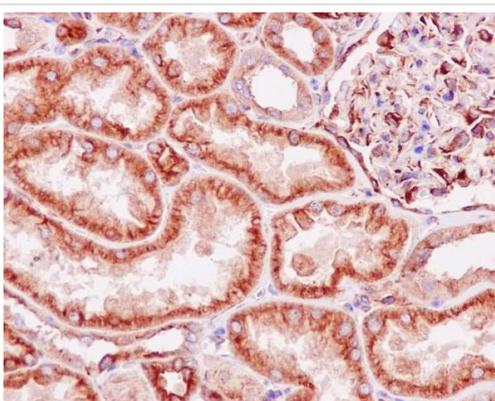
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab174316](#)).



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

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 performed using Tris-EDTA buffer, pH 9.0.

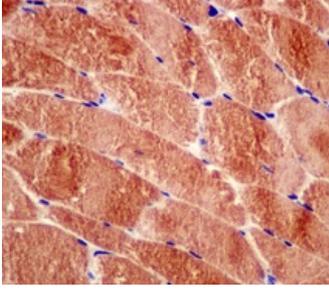
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab174316](#)).



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

Immunohistochemical staining of paraffin embedded human kidney with unpurified [ab174316](#) at a working dilution of 1 in 300. The secondary antibody used is a HRP polymer for rabbit IgG. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0.

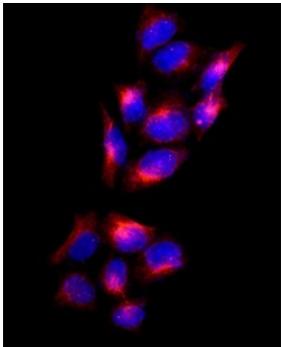
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab174316](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LOX antibody [EPR4025]
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Immunohistochemical analysis of paraffin-embedded human muscle tissue labeling LOX with unpurified [ab174316](#) at a 1/50 dilution.

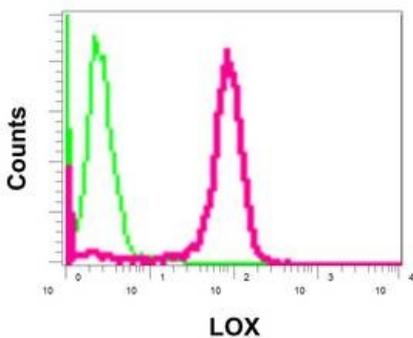
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab174316](#)).



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

Immunofluorescence analysis of HeLa cells labeling LOX with unpurified [ab174316](#) at a 1/50 dilution.

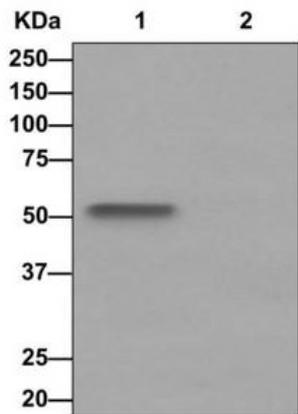
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab174316](#)).



Flow Cytometry - Anti-LOX antibody [EPR4025] - Low endotoxin, Azide free (ab219369)

Flow cytometric analysis of permeabilized Jurkat cells using unpurified [ab174316](#) at a 1/10 dilution (red) or a rabbit IgG (negative) (green).

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]
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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](#)).

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