

**Anti-LOX Rabbit Monoclonal Antibody**  
Catalog # ABO13289

**Specification**

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**Anti-LOX Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, IP, FC
Primary Accession	<a href="#">P28300</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-LOX Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

**Anti-LOX Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 4015

**Other Names**

Protein-lysine 6-oxidase, 1.4.3.13, Lysyl oxidase, Protein-lysine 6-oxidase, long form, Protein-lysine 6-oxidase, short form, LOX

**Calculated MW**

46944 MW KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:60

**Subcellular Localization**

Secreted, extracellular space.

**Tissue Specificity**

Heart, placenta, skeletal muscle, kidney, lung and pancreas..

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human LOX

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated**

freeze-thaw cycles.

## Anti-LOX Rabbit Monoclonal Antibody - Protein Information

**Name** LOX

### Function

Responsible for the post-translational oxidative deamination of peptidyl lysine residues in precursors to fibrous collagen and elastin (PubMed:<a href="http://www.uniprot.org/citations/26838787" target="\_blank">26838787</a>). Regulator of Ras expression. May play a role in tumor suppression. Plays a role in the aortic wall architecture (By similarity).

### Cellular Location

Secreted. Secreted, extracellular space

### Tissue Location

Heart, placenta, skeletal muscle, kidney, lung and pancreas.

## Anti-LOX Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-LOX Rabbit Monoclonal Antibody - Images

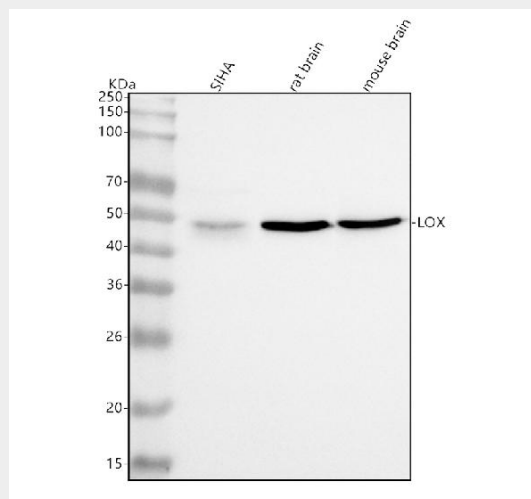


Figure 1. Western blot analysis of LOX using anti-LOX antibody (M00575). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing

conditions.

Lane 1: human SiHa whole cell lysates,

Lane 2: rat brain tissue lysates,

Lane 3: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LOX antigen affinity purified monoclonal antibody (Catalog # M00575) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for LOX at approximately 47 kDa. The expected band size for LOX is at 47 kDa.

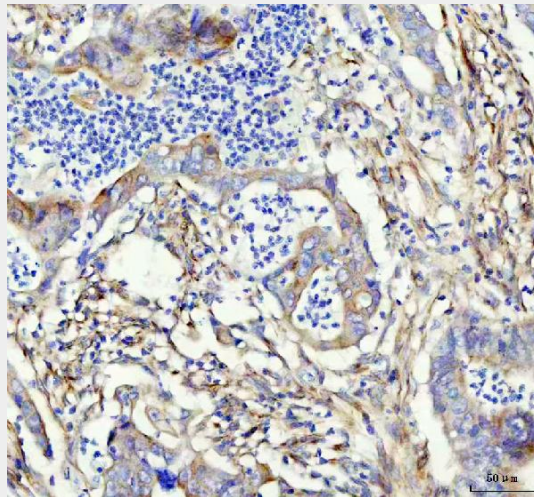


Figure 2. IHC analysis of LOX using anti-LOX antibody (M00575).

LOX was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-LOX Antibody (M00575) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

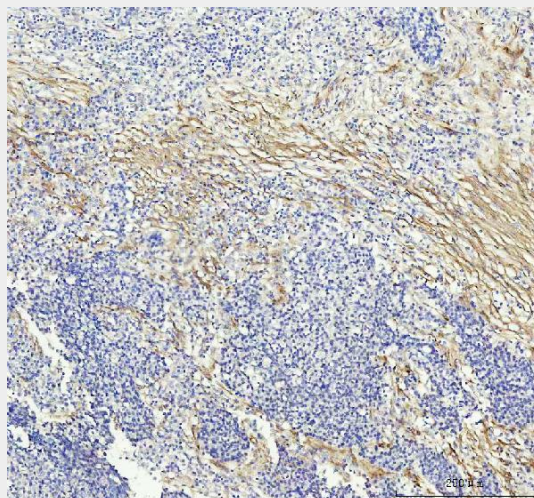


Figure 3. IHC analysis of LOX using anti-LOX antibody (M00575).

LOX was detected in a paraffin-embedded section of human lung squamous cell carcinoma tissue.

Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-LOX Antibody (M00575) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

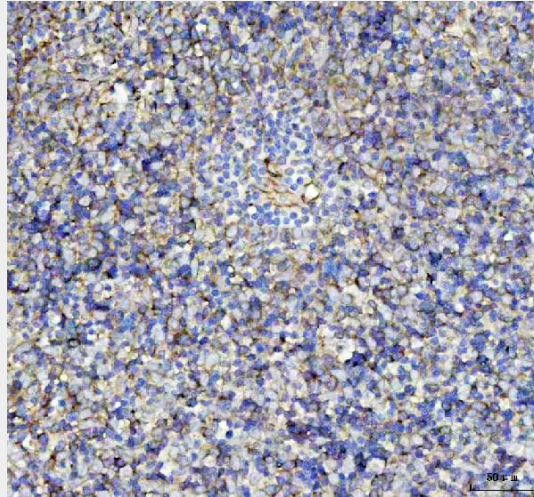
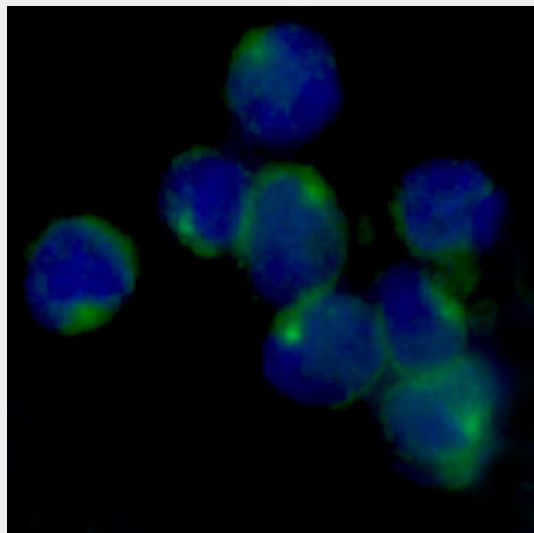


Figure 4. IHC analysis of LOX using anti-LOX antibody (M00575). LOX was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-LOX Antibody (M00575) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



Immunofluorescent analysis of Jurkat cells, using LOX Antibody.