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# Anti-LOX Picoband Antibody

**Catalog # ABO12404**

## Specification

### Anti-LOX Picoband Antibody - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | P28300 |
| Host | **Rabbit** |
| Reactivity | **Human, Mouse, Rat** |
| Clonality | **Polyclonal** |
| Format | **Lyophilized** |

**Description**
Rabbit IgG polyclonal antibody for Protein-lysine 6-oxidase(LOX) detection. Tested with WB, ELISA in Human;Mouse;Rat.

**Reconstitution**
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

### Anti-LOX Picoband Antibody - Additional Information

**Gene ID** 4015

**Other Names**
Protein-lysine 6-oxidase, 1.4.3.13, Lysyl oxidase, LOX

**Calculated MW**
46944 MW KDa

**Application Details**
ELISA , 0.1-0.5 µg/ml, Human, -<br>Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human<br>

**Subcellular Localization**
Secreted, extracellular space.

**Tissue Specificity**
Heart, placenta, skeletal muscle, kidney, lung and pancreas. .

**Protein Name**
Protein-lysine 6-oxidase

**Contents**
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

**Immunogen**
A synthetic peptide corresponding to a sequence in the middle region of human LOX (240-268aa AEENCLASTAYRADVRDYDHRVLLRFPQR), different from the related mouse and rat sequences by one amino acid.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**
No cross reactivity with other proteins

| | |
|---|---|
| Storage | **At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.** |

## Anti-LOX Picoband 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 Picoband 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 Cytomety
- Cell Culture

## Anti-LOX Picoband Antibody - Images

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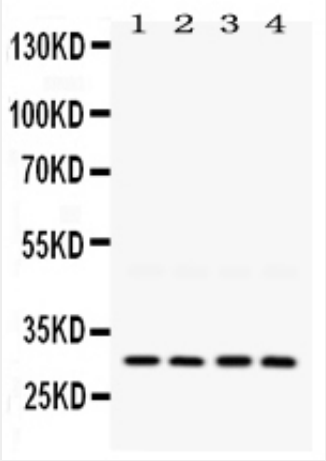


Anti- LOX Picoband antibody, ABO12404, Western blottingAll lanes: Anti LOX (ABO12404) at 0.5ug/mlLane 1: Rat Lung Tissue Lysate at 50ugLane 2: Rat Kidney Tissue Lysate at 50ugLane 3: Rat Thymus Tissue Lysate at 50ugLane 4: Mouse Kidney Tissue Lysate at 50ugPredicted bind size: 31KDObserved bind size: 31KD

**Anti-LOX Picoband Antibody - Background**

Lysyl oxidaseÂ (LOX), also known asÂ protein-lysine 6-oxidase, is aÂ proteinÂ that, in humans, is encoded by the LOXÂ gene. The protein encoded by this gene is an extracellular copper enzyme that initiates the crosslinking of collagens and elastin. The enzyme catalyzes oxidative deamination of the epsilon-amino group in certain lysine and hydroxylysine residues of collagens and lysine residues of elastin. In addition to crosslinking extracellular matrix proteins, the encoded protein may have a role in tumor suppression. Defects in this gene are a cause of autosomal recessive cutis laxa type I (CL type I). Two transcript variants encoding different isoforms have been found for this gene.Â