

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, -
Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human

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 Na₃.

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 reconstitution, 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: [26838787](http://www.uniprot.org/citations/26838787)). 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

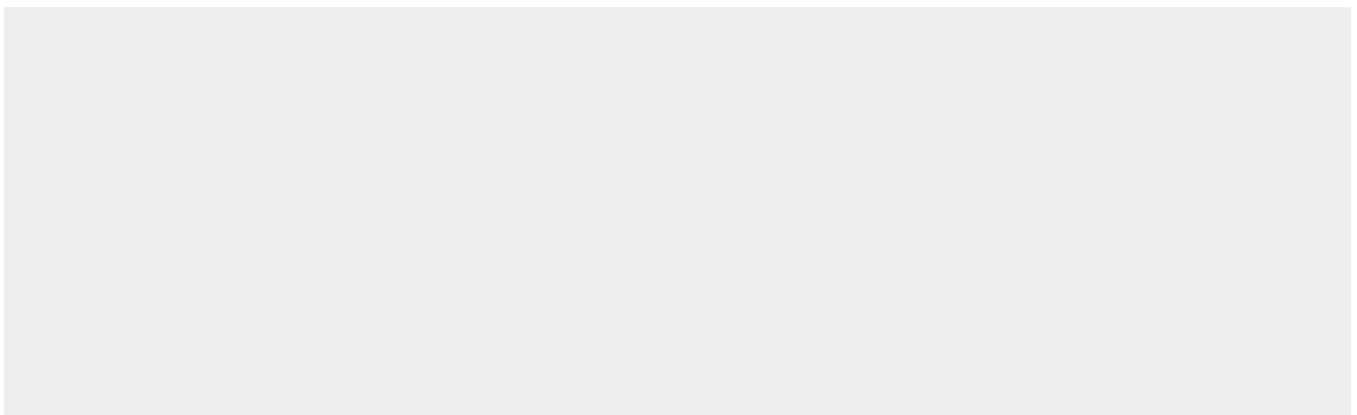
Tissue Location

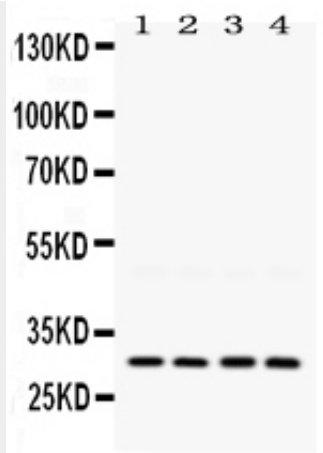
Heart, placenta, skeletal muscle, kidney, lung and pancreas.

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 Cytometry](#)
- [Cell Culture](#)

Anti-LOX Picoband Antibody - Images



Anti- LOX Picoband antibody, ABO12404, Western blotting
All lanes: Anti LOX (ABO12404) at 0.5ug/ml
Lane 1: Rat Lung Tissue Lysate at 50ug
Lane 2: Rat Kidney Tissue Lysate at 50ug
Lane 3: Rat Thymus Tissue Lysate at 50ug
Lane 4: Mouse Kidney Tissue Lysate at 50ug
Predicted bind size: 31KD
Observed bind size: 31KD

Anti-LOX Picoband Antibody - Background

Lysyl oxidase (LOX), also known as protein-lysine 6-oxidase, is a protein that, in humans, is encoded by the LOX 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.