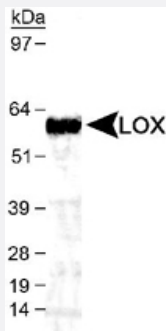


LOX polyclonal antibody

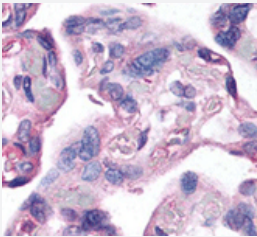
Catalog # PAB12403 Size 50 uL

Applications



Western Blot (Tissue lysate)

Western blot analysis of LOX in mouse kidney lysate using LOX polyclonal antibody (Cat # PAB12403) (1 : 1,000).



Immunohistochemistry

Staining of LOX on placental trophoblasts using LOX polyclonal antibody (Cat # PAB12403) at 10 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of LOX.
Immunogen	A mixture of synthetic peptides corresponding to residues within 300-400 and 200-300 of human LOX.
Host	Rabbit
Reactivity	Bovine, Chicken, Human, Mouse, Pig, Rat, Xenopus, Zebra fish
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200) Western Blot (1:1000-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris-glycine, 150 mM NaCl (0.02% sodium azide)
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot analysis of LOX in mouse kidney lysate using LOX polyclonal antibody (Cat # PAB12403) (1 : 1,000).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

- Immunohistochemistry

Staining of LOX on placental trophoblasts using LOX polyclonal antibody (Cat # PAB12403) at 10 ug/mL .

Gene Info — LOX

Entrez GeneID	4015
Protein Accession#	P28300
Gene Name	LOX
Gene Alias	MGC105112
Gene Description	lysyl oxidase
Omim ID	153455 219100
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	protein-lysine 6-oxidase

Publication Reference

- [Ras inhibitors display an anti-metastatic effect by downregulation of lysyl oxidase through inhibition of the Ras-PI3K-Akt-HIF-1 \$\alpha\$ pathway.](#)

Yoshikawa Y, Takano O, Kato I, Takahashi Y, Shima F, Kataoka T.

Cancer Letters 2017 Sep; 410:82.

Application: WB-Ce, Mouse, NIH/3T3 cells

- [Lysyl oxidase secreted by tumour endothelial cells promotes angiogenesis and metastasis.](#)

Osawa T, Ohga N, Akiyama K, Hida Y, Kitayama K, Kawamoto T, Yamamoto K, Maishi N, Kondoh M, Onodera Y, Fujie M, Shinohara N, Nonomura K, Shindoh M, Hida K.

British Journal of Cancer 2013 Oct; 109(8):2237.

Application: IF, WB-Ce, WB-Tr, Mouse, Tumour endothelial, Normal endothelial cells, Blood vessels

- [Anthracycline inhibits recruitment of hypoxia-inducible transcription factors and suppresses tumor cell migration and cardiac angiogenic response in the host.](#)

Tanaka T, Yamaguchi J, Shoji K, Nangaku M.

The Journal of Biological Chemistry 2012 Oct; 287(42):34866.

Application: WB, Human, A498 cells

- [Lysyl oxidase is essential for hypoxia-induced metastasis.](#)

Erler JT, Bennewith KL, Nicolau M, Dornhofer N, Kong C, Le QT, Chi JT, Jeffrey SS, Giaccia AJ.

Nature 2006 Apr; 440(7088):1222.

Application: IHC-P, WB, Human, MDA231 cells-derived tumors

- [The Pro-regions of lysyl oxidase and lysyl oxidase-like 1 are required for deposition onto elastic fibers.](#)

Thomassin L, Werneck CC, Broekelmann TJ, Gleyzal C, Hornstra IK, Mecham RP, Sommer P.

The Journal of Biological Chemistry 2005 Dec; 280(52):42848.

Application: IF, WB, Mouse, Rabbit, Mouse Aorta, Mouse lung, RFL-6 cells

- [Post-translational glycosylation and proteolytic processing of a lysyl oxidase precursor.](#)

Trackman PC, Bedell-Hogan D, Tang J, Kagan HM.

The Journal of Biological Chemistry 1992 Apr; 267(12):8666.

Application: IP, Rat, Aorta smooth muscle cells

Disease

- [Adenocarcinoma](#)
- [Amyotrophic lateral sclerosis](#)
- [Asthma](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Intracranial Aneurysm](#)
- [Lung Neoplasms](#)
- [Mouth Neoplasms](#)
- [Oral Submucous Fibrosis](#)
- [Precancerous Conditions](#)
- [Tobacco Use Disorder](#)