

# LOX Antibody (Center) (Ascites)

Mouse Monoclonal Antibody (Mab)

Catalog # AM2166a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P28300</a>
<b>Other Accession</b>	<a href="#">P16636</a> , <a href="#">P45845</a> , <a href="#">P28301</a> , <a href="#">NP_002308.2</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Mouse, Pig, Rat
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG2b
<b>Clone Names</b>	624CT23.7.3
<b>Calculated MW</b>	46944
<b>Antigen Region</b>	234-260

## Additional Information

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<b>Gene ID</b>	4015
<b>Other Names</b>	Protein-lysine 6-oxidase, Lysyl oxidase, LOX
<b>Target/Specificity</b>	This LOX antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 234-260 amino acids from the Central region of human LOX.
<b>Dilution</b>	WB~~1:200~1600 E~~Use at an assay dependent concentration.
<b>Format</b>	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	LOX Antibody (Center) (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	LOX
<b>Function</b>	Responsible for the post-translational oxidative deamination of peptidyl lysine residues in precursors to fibrous collagen and elastin (PubMed: <a href="#">26838787</a> ). Regulator of Ras expression. May play a role in tumor suppression. Plays a role in the aortic wall architecture (By similarity).

<b>Cellular Location</b>	Secreted. Secreted, extracellular space
<b>Tissue Location</b>	Heart, placenta, skeletal muscle, kidney, lung and pancreas.

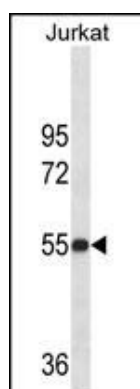
## Background

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.

## References

Gao, Y., et al. Proc. Natl. Acad. Sci. U.S.A. 107(44):18892-18897(2010)  
Santhanam, A.N., et al. Oncogene 29(27):3921-3932(2010)  
Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010)  
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :  
Wang, X., et al. PLoS ONE 5 (8), E11934 (2010) :

## Images



LOX Antibody (Center)(Ascites)(Cat. #AM2166a) western blot analysis in Jurkat cell line lysates (35µg/lane). This demonstrates the LOX antibody detected the LOX protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.