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LOX Antibody (Center)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2166b

Product Information

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

Additional Information

Gene ID	4015
Other Names	Protein-lysine 6-oxidase, Lysyl oxidase, LOX
Target/Specificity	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.
Dilution	WB~~1:500~1000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	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.
Precautions	LOX Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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). 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.

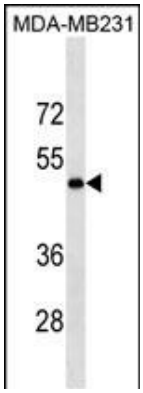
Background

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) (Cat. #AM2166b) western blot analysis in MDA-MB231 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'.