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[Primary Antibody]

Rabbit Anti-LOX antibody

Catalog Number: SL15492R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	LOX
Immunogen:	KLH conjugated synthetic peptide derived from human LOX: 201-300/417
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Pig, Sheep)
Predicted MW.:	29kDa
Subcellular Location:	Secretory protein
Background:	This gene encodes a member of the lysyl oxidase family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate a regulatory propeptide and the mature enzyme. The copper-dependent amine oxidase activity of this enzyme functions in the crosslinking of collagens and elastin, while the propeptide may play a role in tumor suppression. In addition, defects in this gene have been linked with predisposition to thoracic aortic aneurysms and dissections. [provided by RefSeq, Jul 2016] **Function:** Responsible for the post-translational oxidative deamination of peptidyl lysine residues in precursors to fibrous collagen and elastin. In

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	addition to cross-linking of extracellular matrix proteins, may have a direct role in tumor suppression. **Tissue Specificity:** Heart, placenta, skeletal muscle, kidney, lung and pancreas. **Post-translational modifications:** The lysine tyrosylquinone cross-link (LTQ) is generated by condensation of the epsilon-amino group of a lysine with a topaquinone produced by oxidation of tyrosine. Proteolytically activated by BMP1 (By similarity). **Similarity:** Belongs to the lysyl oxidase family. **Database links:** **Entrez Gene:** 396474 Chicken **Entrez Gene:** 4015 Human **Entrez Gene:** 16948 Mouse **Entrez Gene:** 24914 Rat Omim: 153455 Human **SwissProt:** Q05063 Chicken **SwissProt:** P28300 Human **SwissProt:** P28301 Mouse **SwissProt:** P16636 Rat **Unigene:** 102267 Human **Unigene:** 172 Mouse **Unigene:** 11372 Rat

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