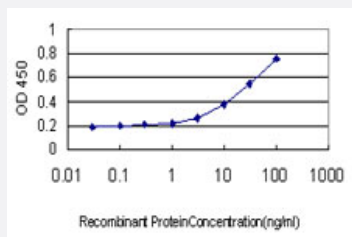


LOXL2 monoclonal antibody (M01), clone 5D2

Catalog # H00004017-M01

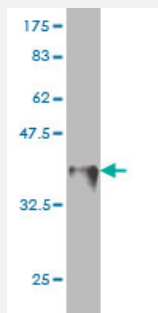
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged LOXL2 is approximately 0.3ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.63 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant LOXL2.
Immunogen	LOXL2 (NP_002309, 675 a.a. ~ 773 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	NFGDQGITMGCWDMYRHDIDCQWVDITDVPPGDYLFQVVINPNFEVAESDYSNNIMKCRSRYDGH RIWMYNCHIGGSFSEETKKEHFHSGLLNNQLSP
Host	Mouse
Reactivity	Human

Interspecies Antigen Sequence	Mouse (91); Rat (91)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged LOXL2 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — LOXL2

Entrez GeneID	4017
GeneBank Accession#	NM_002318
Protein Accession#	NP_002309
Gene Name	LOXL2
Gene Alias	LOR2, WS9-14
Gene Description	lysyl oxidase-like 2
Omim ID	606663
Gene Ontology	Hyperlink

Gene Summary

This gene encodes a member of the lysyl oxidase gene family. The prototypic member of the family is essential to the biogenesis of connective tissue, encoding an extracellular copper-dependent amine oxidase that catalyses the first step in the formation of crosslinks in collagens and elastin. A highly conserved amino acid sequence at the C-terminus end appears to be sufficient for amine oxidase activity, suggesting that each family member may retain this function. The N-terminus is poorly conserved and may impart additional roles in developmental regulation, senescence, tumor suppression, cell growth control, and chemotaxis to each member of the family. [provided by RefSeq]

Other Designations

lysyl oxidase homolog 2|lysyl oxidase related 2

Publication Reference

- [Scavenger Receptor Cysteine-Rich domains of Lysyl Oxidase-Like2 regulate endothelial ECM and angiogenesis through non-catalytic scaffolding mechanisms.](#)

Umana-Diaz C, Pichol-Thievent C, Marchand MF, Atlas Y, Salza R, Malbouyres M, Barret A, Teillon J, Ardidie-Robouant C, Ruggiero F, Monnot C, Girard P, Guilluy C, Ricard-Blum S, Germain S, Muller L.

Matrix Biology 2020 Jun; 88:33.

Application: WB-Ce, WB-Tr, Fish, Human, Mouse, CHO cells, HUVECs, Zebrafish embryos

- [Lysyl oxidase-like 2 \(LOXL2\)-mediated cross-linking of tropoelastin.](#)

Schmelzer CEH, Heinz A, Troilo H, Lockhart-Cairns MP, Jowitt TA, Marchand MF, Bidault L, Bignon M, Hedtke T, Barret A, McConnell JC, Sherratt MJ, Germain S, Hulmes DJS, Baldock C, Muller L.

FASEB Journal 2019 Apr; 33(4):5468.

Application: IF, WB-Ti, Mouse, Tibialis anterior, Aorta

- [A three-gene signature from protein-protein interaction network of LOXL2- and actin-related proteins for esophageal squamous cell carcinoma prognosis.](#)

Zhan XH, Jiao JW, Zhang HF, Li CQ, Zhao JM, Liao LD, Wu JY, Wu BL, Wu ZY, Wang SH, Du ZP, Shen JH, Zou HY, Neufeld G, Xu LY, Li EM.

Cancer Medicine 2017 May; 6(7):1707.

Application: IHC, Human, Human esophageal squamous cell carcinoma (ESCC)

- [Reduced nuclear and ectopic cytoplasmic expression of lysyl oxidase-like 2 is associated with lymph node metastasis and poor prognosis in esophageal squamous cell carcinoma.](#)

Li TY, Xu LY, Wu ZY, Liao LD, Shen JH, Xu XE, Du ZP, Zhao Q, Li EM.

Human Pathology 2011 Dec; 43(7):1068.

Application: IHC, Human, Esophageal squamous cell carcinoma

- [Epithelial-Mesenchymal Transition Induced by Hepatitis C Virus Core Protein in Cholangiocarcinoma.](#)

Li T, Li D, Cheng L, Wu H, Gao Z, Liu Z, Jiang W, Gao YH, Tian F, Zhao L, Wang S.

Annals of Surgical Oncology 2010 Jul; 17(7):1937.

Application: WB-Tr, Human, QBC939 cells

- [Reciprocal regulation of LOX and LOXL2 expression during cell adhesion and terminal differentiation in epidermal keratinocytes.](#)

Fujimoto E, Tajima S.

Journal of Dermatological Science 2009 Aug; 55(2):91.

Application: IF, Human, Human keratinocytes

Disease

- [Genetic Predisposition to Disease](#)
- [Intracranial Aneurysm](#)
- [Long QT syndrome](#)
- [Torsades de Pointes](#)