

Product Name: KD-Validated LOX Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01157**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 46.9kDa

Antigen Information

Gene Name	LOX
Alternative Names	Lysyl Oxidase; Protein-Lysine 6-Oxidase; EC 1.4.3.13; AAT10
Gene ID	4015.0
SwissProt ID	P28300
Immunogen	A synthesized peptide derived from human LOX

Background

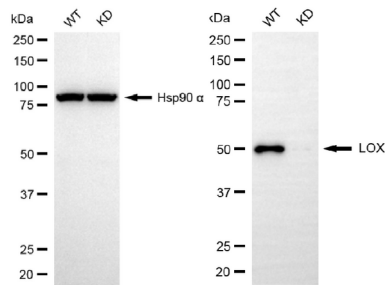
This gene encodes a member of the lysyl oxidase family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate a regulatory propeptide and the mature enzyme. The copper-dependent amine oxidase 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]

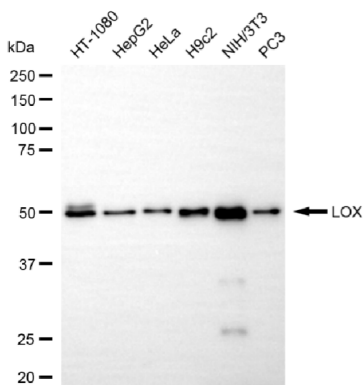
Research Area

Signal Transduction,Cancer,Cardiovascular

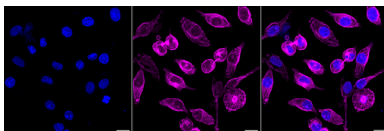
Image Data



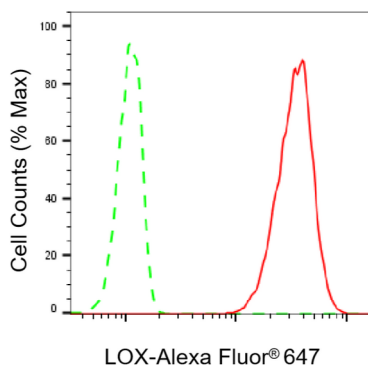
Western blotting analysis using LOX antibody (KVA01157). LOX expression in wild-type (WT) and LOX knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with LOX antibody (KVA01157, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using LOX antibody (KVA01157). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with LOX antibody (KVA01157, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with LOX antibody (KVA01157, 1:1,000). Nuclei were stained blue with DAPI; LOX was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: High. Scale bar, 20 µm.



Flow cytometric analysis of LOX expression in HT-1080 cells using LOX antibody (KVA01157, 1:2,000). Green, isotype control; red, LOX.