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Product datasheet for CF500869

LOX Mouse Monoclonal Antibody [Clone ID: OTI6B7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI6B7
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:1000, IHC 1:50, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 22-168 of human LOX (NP_002308) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	46.8 kDa
Gene Name:	Homo sapiens lysyl oxidase (LOX), transcript variant 1, mRNA.
Database Link:	NP_002308 Entrez Gene 16948 MouseEntrez Gene 24914 RatEntrez Gene 4015 Human P28300

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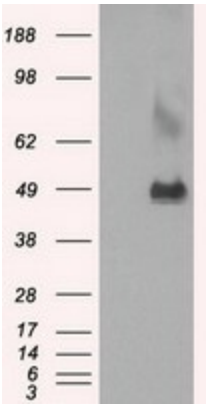
Background: The protein encoded by this gene is an extracellular copper enzyme that initiates the crosslinking of collagens and elastin. The enzyme catalyzes oxidative deamination of the epsilon-amino group in certain lysine and hydroxylysine residues of collagens and lysine residues of elastin. In addition 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. [provided by RefSeq]

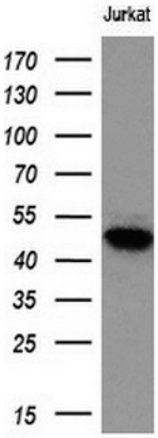
Synonyms: MGC105112

Protein Families: Druggable Genome, Secreted Protein

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY LOX ([RC213323], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-LOX. Positive lysates [LY400843] (100ug) and [LC400843] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (10ug) from 1 cell line by using anti-LOX monoclonal antibody (1:200).

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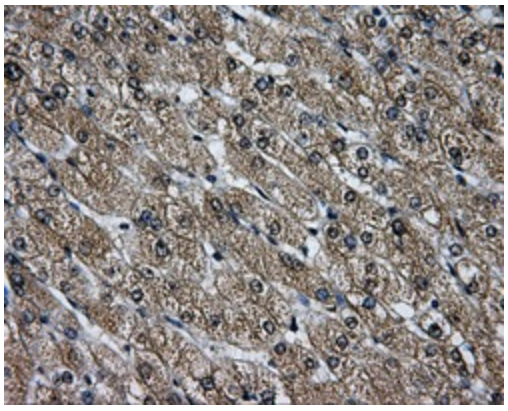
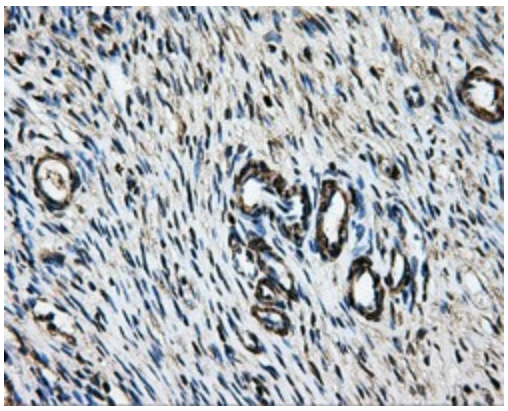
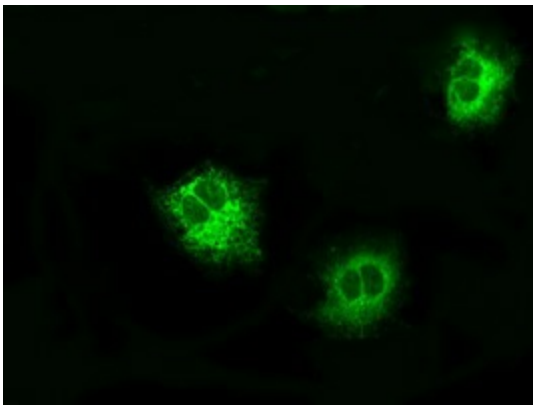


Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-LOX mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500869])



Immunohistochemical staining of paraffin-embedded Human Ovary tissue within the normal limits using anti-LOX mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500869])



Anti-LOX mouse monoclonal antibody ([TA500869]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY LOX ([RC213323]).

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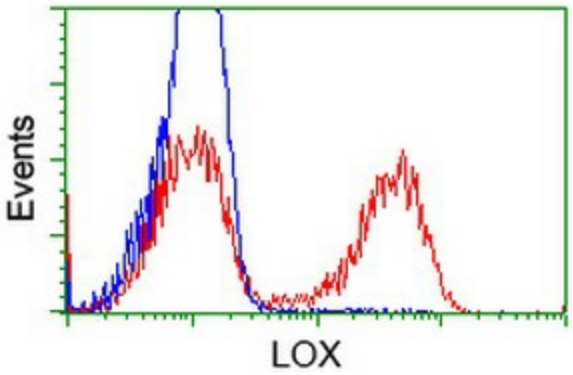
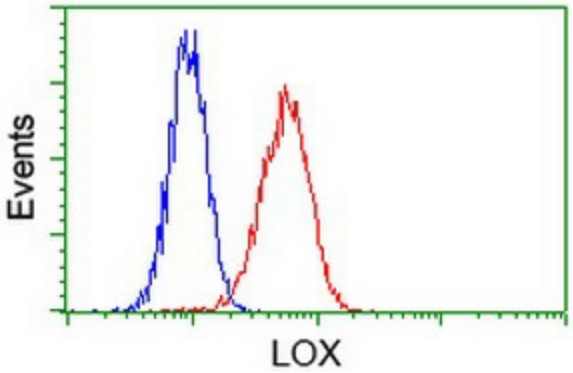
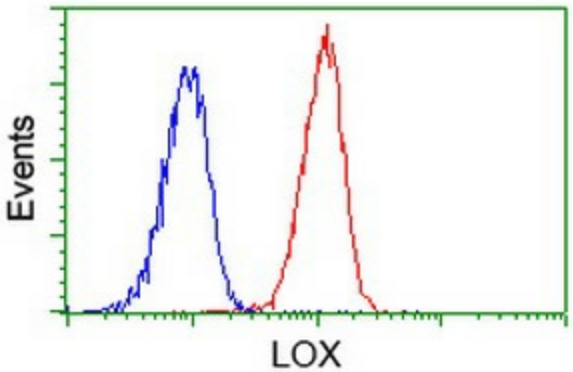


HEK293T cells transfected with either [RC213323] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-LOX antibody ([TA500869]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Hela cells, using anti-LOX antibody ([TA500869]), (Red), compared to a nonspecific negative control antibody, (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-LOX antibody ([TA500869]), (Red), compared to a nonspecific negative control antibody, (Blue).

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