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Product datasheet for TA337077

LOX Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, IP, WB
Recommended Dilution:	Immunohistochemistry, Knockout Validated, Immunocytochemistry/ Immunofluorescence: 1:10-1:500, Immunoprecipitation: 1:10-1:500, Western Blot: 1:100-1:2000, Immunohistochemistry-Paraffin: 1:10-1:500, Immunohistochemistry-Frozen
Reactivity:	Human, Mouse, Rat, Bovine, Primate
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Within the range of amino acids 305-338 of human LOX protein were used as the immunogen.
Formulation:	Crude whole Rabbit sera with 50% Glycerol, 0.025% Sodium Azide
Concentration:	lot specific
Purification:	Whole antisera
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	lysyl oxidase
Database Link:	<u>NP_002308</u> <u>Entrez Gene 16948 MouseEntrez Gene 24914 RatEntrez Gene 4015 Human</u> <u>P28300</u>



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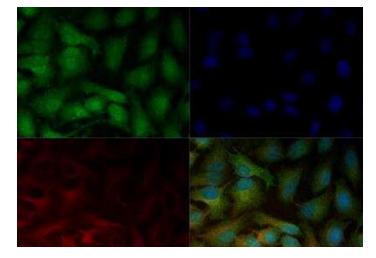
CRIGENE LOX Rabbit Polyclonal Antibody – TA337077

Background:

LOX (lysyl oxidase) is a copper-dependent amine oxidase enzyme responsible for posttranslational oxidative deamination of peptidyl lysine residues in precursors to fibrous collagen and elastin. LOX is synthesized as an inactive 50 kD proenzyme that is Nglycosylated in ER/Golgi complex and then secreted into extracellular environment, where it is processed by pro-collagen C-proteinases (mammalian Tolloids and BMP-1) into an active enzyme (28-32 kD) and an 18 kD propeptide (LOX-PP) which can be N-glycosylated intracellularly into a ~35 kD form. LOX activity is critical in maintaining the tensile as well as elastic features of the connective tissues of skeletal, pulmonary and cardiovascular systems. LOX deficiency leads to intra-gestational lethality in LOX-/- mice wherein the pups exhibits aortic aneurysms/tortuosity/rupture. LOX expression is highly regulated during normal development; and, its aberrant expression or activity has been documented in a range of diseases predominantly associated with the ECM such as Cutis laxa or OHS (occipital horn syndrome), Menkes' syndrome, myocardial ischaemia/heart failure, atherosclerosis, scleroderma, liver cirrhosis, Pseudoexfoliation syndrome and glaucoma, Alzheimer's/non-Alzheimer's dementia, Wilson's disease, primary biliary cirrhosis as well as in many type of cancers, wherein LOX implicates in promoting tumor cell invasion and metastasis.

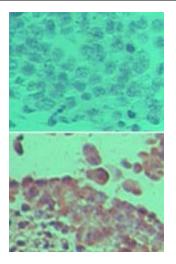
Synonyms:MGC105112Protein Families:Druggable Genome, Secreted Protein

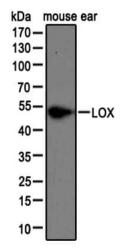
Product images:



Immunocytochemistry/Immunofluorescence: LOX Antibody TA337077 - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-LOX (TA337077) at a 1:200 dilution overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.

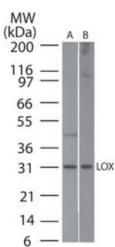
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Immunohistochemistry-Paraffin: LOX Antibody TA337077 - Analysis of LOX in formalin-fixed, paraffin-embedded mouse skin using an isotype control (top) and TA337077 (bottom) at 1:100.

Western Blot: LOX Antibody TA337077 - Analysis of mouse ear lysate when LOX antibody (TA337077) was used at 1:1000. The band shown is the expected inactive 50 kD proenzyme.



Western Blot: LOX Antibody TA337077 - Analysis of LOX in A) human skin and B) mouse ear skin lysate using TA337077 at 1:500. Goat anti-rabbit IgG HRP secondary antibody and PicoTect ECL substrate solution were used for this test.

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