

For Research Use Only

LOX Polyclonal antibody

Catalog Number: 17958-1-AP

20 Publications



Basic Information

Catalog Number:

17958-1-AP

Size:

150ul, Concentration: 300 µg/ml by Nanodrop and 233 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12479

GenBank Accession Number:

BC074872

GeneID (NCBI):

4015

Full Name:

lysyl oxidase

Calculated MW:

417 aa, 47 kDa

Observed MW:

32 kDa, 45-47 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB

IHC 1:100-1:400

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: Jurkat cells, MKN-45 cells, SGC-7901 cells, NIH/3T3 cells, mouse skeletal muscle tissue, A375 cells

IP: mouse skeletal muscle tissue,

IHC: human stomach cancer tissue, human heart tissue, human skin tissue, human placenta tissue

Background Information

LOX is a member of a multigene family (LOX, LOXL, LOXL2, LOXL3, and LOXL4). Lysyl oxidase (LOX), a copper-dependent enzyme, plays a critical role in the formation and repair of the extracellular matrix (ECM) by catalyzing the crosslinking of elastin and collagen. LOX expression appears to be upregulated in malignancies and has recently been suggested to play a role in regulating tumor metastasis. It is synthesized as a 50 kDa proenzyme, secreted, and processed into an 32 kDa mature, active enzyme and an 18-kDa propeptide.

Notable Publications

Author	Pubmed ID	Journal	Application
Marilena Vered	31570208	Acta Histochem	IHC
Binghui Liu	33320565	ACS Biomater Sci Eng	IHC
Jinfeng Zhu	34595188	Front Med (Lausanne)	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

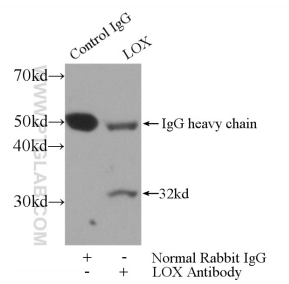
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

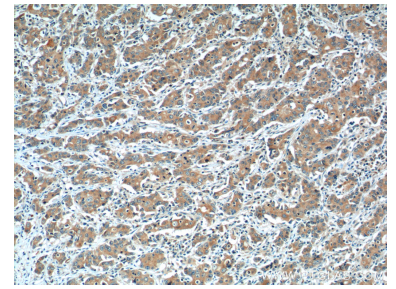
Selected Validation Data



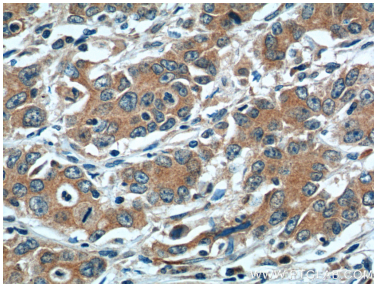
Jurkat cells were subjected to SDS PAGE followed by western blot with 17958-1-AP (LOX antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP Result of anti-LOX (IP:17958-1-AP, 3ug; Detection:17958-1-AP 1:500) with mouse skeletal muscle tissue lysate 2000ug.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 17958-1-AP (LOX Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 17958-1-AP (LOX Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).