

For Research Use Only

# LOX Polyclonal antibody

Catalog Number: 17958-1-AP

Featured Product

32 Publications



## Basic Information

### Catalog Number:

17958-1-AP

### Size:

500 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12479

### GenBank Accession Number:

BC074872

### GeneID (NCBI):

4015

### UNIPROT ID:

P28300

### 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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

IF, IHC, WB

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rabbit

### 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, mouse eye tissue

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

## 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 a 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:

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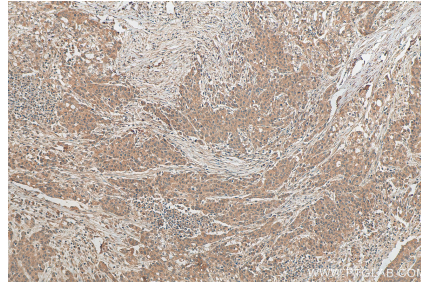
W: ptgcn.com

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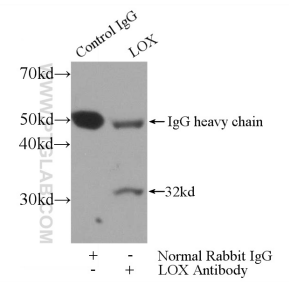
## Selected Validation Data



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.



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).



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