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# LOX antibody

Rabbit Polyclonal antibody to LOX

Catalog Number **NB 100-2527**

**Background:** Lysyl oxidase (LOX), a copper-containing amine oxidase, belongs to a heterogeneous family of enzymes that oxidize primary amine substrates to reactive aldehydes. It plays a vital role in the formation and repair of the extra cellular matrix. As well, LOX is a multifunctional enzyme having diverse biological functions such as developmental regulation, tumor suppression, cell motility and cellular senescence. The secreted form of LOX is responsible for the invasive properties of hypoxic human cancer cells. Thus, it is essential for hypoxia-induced metastasis and is a good therapeutic target for preventing and treating metastases.

**Alternate Names:** Protein-lysine 6-oxidase antibody, EC 1.4.3.13 antibody, Lysyl oxidase antibody

**Specificity:** This antibody is specific for LOX protein.

**Immunogen:** A synthetic peptide made to an internal region of the human LOX protein (within residues 200-300). [Swiss-Prot P28300]

**Cellular Localization:** Cytosolic and nuclear.

**Host:** Rabbit

**Species Reactivity:** Human and mouse. Other species have not been tested. The immunogen used for the production of this antibody has 100% homology with rat, pig, and mouse protein, 92% with cow and chicken protein, and 85% with Xenopus.

**Uses and Dilutions:** This antibody is useful for Western blot analysis, where a band is seen at ~63 kDa.

Suggested starting dilutions are as follows:*
Western Blot: 2-4 ug/ml.

*Investigator should determine optimal working conditions and dilutions.

**Positive Control:** Human and mouse kidney lysate

**Form:** 0.1 ml of affinity purified rabbit antisera.

**Concentration:** 0.62 mg/ml

**Storage Buffer:** Tris-glycine, 150mM NaCl

**Preservative:** 0.05% sodium azide

**Storage:** -20 degrees Celcius. Avoid freeze-thaw cycles.

**Limitations:** This product is for research use only and is not approved for use in humans or in clinical diagnosis.

**General References:**

1. Trackman, PC., et al. JCB. 267(12): 8666-8671 (1992)
2. Erler, JT., et al. Nature (Letters). 440(27): 1222-1226 (2006)

## Image(s)

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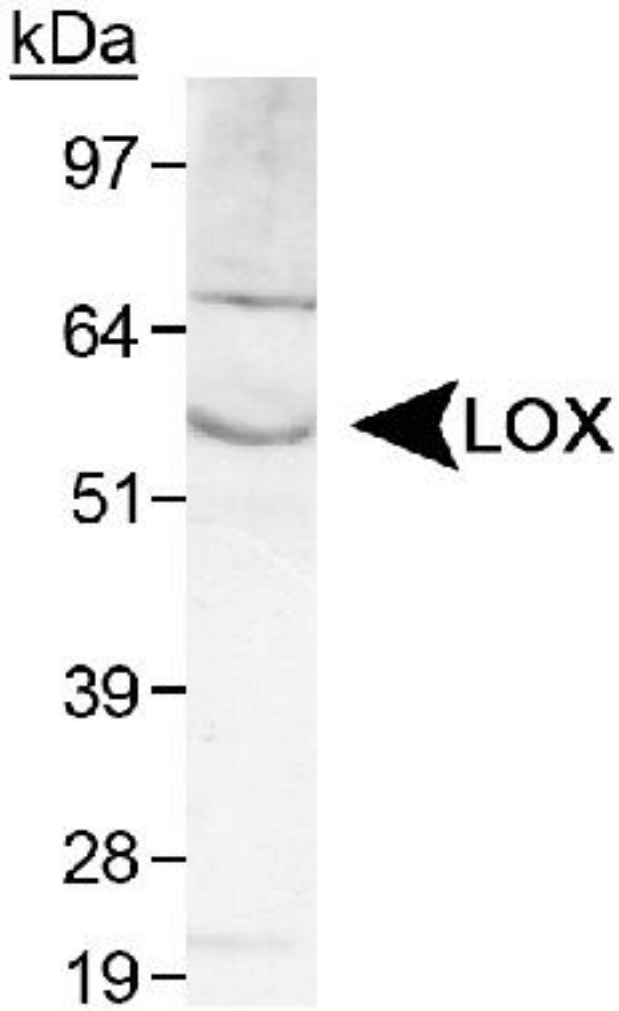


Detection of LOX in human kidney lysate using NB 100-2527.