

# Product Datasheet

## LOX Antibody - BSA Free NBP2-24877

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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Updated 9/9/2025 v.20.1

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**NBP2-24877**

LOX Antibody - BSA Free

Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.025% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Unpurified
<b>Buffer</b>	Whole sera with 50% Glycerol

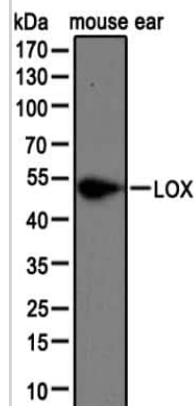
Product Description	
<b>Description</b>	Novus Biologicals Knockout (KO) Validated Rabbit LOX Antibody - BSA Free (NBP2-24877) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-LOX Antibody: Cited in 22 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	4015
<b>Gene Symbol</b>	LOX
<b>Species</b>	Human, Mouse, Rat, Porcine, Sheep
<b>Reactivity Notes</b>	Porcine reactivity reported in scientific literature (PMID: 26224524). Sheep reactivity reported in scientific literature (PMID: 26563105).
<b>Immunogen</b>	A portion of amino acids 305-338 of human LOX protein were used as the immunogen.

Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Knockout Validated
<b>Recommended Dilutions</b>	Western Blot 1:100-1:2000, Immunohistochemistry reported in scientific literature (PMID 29404848), Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen, Knockout Validated reported in scientific literature (PMID 31173582)

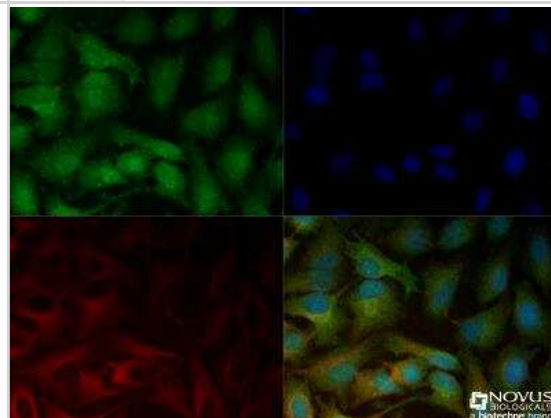


## Images

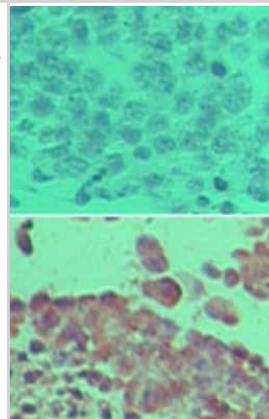
Western Blot: LOX Antibody [NBP2-24877] - Analysis of mouse ear lysate when LOX antibody (NBP2-24877) was used at 1:1000. The band shown is the expected inactive 50 kD proenzyme.



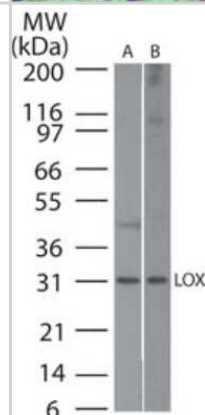
Immunocytochemistry/Immunofluorescence: LOX Antibody [NBP2-24877] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-LOX (NBP2-24877) at a 1:200 dilution overnight at 4C and detected with an 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.



Immunohistochemistry-Paraffin: LOX Antibody [NBP2-24877] - Analysis of LOX in formalin-fixed, paraffin-embedded mouse skin using an isotype control (top) and NBP2-24877 (bottom) at 1:100.



Western Blot: LOX Antibody [NBP2-24877] - Analysis of LOX in A) human skin and B) mouse ear skin lysate using NBP2-24877 at 1:500. Goat anti-rabbit IgG HRP secondary antibody and PicoTect ECL substrate solution were used for this test.



## Publications

Ma, Y;Harris, J;Li, P;Jiang, C;Sun, H;Cao, H; An Integrative Transcriptome Subtraction Strategy to Identify Human lncRNAs That Specifically Play a Role in Activation of Human Hepatic Stellate Cells Non-coding RNA 2024-06-06 [PMID: 38921831]

Fuqua JD, Lawrence MM, Hettinger ZR et al. Impaired proteostatic mechanisms other than decreased protein synthesis limit old skeletal muscle recovery after disuse atrophy Journal of cachexia, sarcopenia and muscle 2023-07-14 [PMID: 37448295] (WB, Rat)

Wang C Regulatory Roles of Fibril-Forming Collagens in Cartilaginous Tissue Biomechanics and Mechanobiology Thesis 2023-01-01

Abbott C, Lawrence M, Kobak K et al. A novel stable isotope approach demonstrates surprising degree of age-related decline in skeletal muscle collagen proteostasis Function 2021-05-10 [PMID: 34124684] (WB, Mouse)

Cellular and Extracellular Matrix Basis for Heterogeneity in Mitral Annular Contraction Stephens EH, Fahrenholtz MM, Connell PS Cardiovasc Eng Technol [PMID: 26195991] (IHC-P, Sheep)

Wang C, Brisson BK, Terajima M et al. Type III Collagen is a Key Regulator of the Collagen Fibrillar Structure and Biomechanics of Articular Cartilage and Meniscus Matrix Biol. 2019-10-23 [PMID: 31655293] (WB, Mouse)

Terajima M, Taga Y, Cabral WA et al. Cyclophilin B control of lysine post-translational modifications of skin type I collagen PLoS Genet. 2019-06-01 [PMID: 31173582] (WB, IF/IHC, Knockout Validated, Mouse)

Rosow L, Veitl S, Vorlova S et al LOX-catalyzed collagen stabilization is a proximal cause for intrinsic resistance to chemotherapy. Oncogene. 2018-09-01 [PMID: 29780168] (Human)

### Details:

Citation using the HRP version of this antibody.

Connell PS, Vekilov DP, Diaz CM et al. Eliminating Regurgitation Reduces Fibrotic Remodeling of Functional Mitral Regurgitation Conditioned Valves. Ann Biomed Eng 2018-02-05 [PMID: 29404848] (IF/IHC, Porcine)

Smith LR, Hammers DW, Sweeney HL, Barton ER. Increased collagen cross-linking is a signature of dystrophin-deficient muscle. Muscle Nerve. 2015-11-30 [PMID: 26616495] (WB, Mouse)

Stephens EH, Nguyen TC, Blazejewski JG et al. Extracellular matrix remodeling in wound healing of critical size defects in the mitral valve leaflet. Heart Vessels. 2015-11-12 [PMID: 26563105] (IHC-P, Sheep)

Connell PS, Azimuddin AF, Kim SE et al. Regurgitation Hemodynamics Alone Cause Mitral Valve Remodeling Characteristic of Clinical Disease States In Vitro. Ann Biomed Eng. 2015-07-30 [PMID: 26224524] (IHC-P, Porcine)

### Details:

LOX antibody (Imgenex: IMG-6442A) was used for IHC-P analysis of lysyl oxidase protein in experiments involving organ cultures of mitral valves that were obtained from adolescent (6–9 months) porcine animals.

More publications at <http://www.novusbio.com/NBP2-24877>



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### **Products Related to NBP2-24877**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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