# Product Datasheet

## LOX propeptide Antibody - BSA Free
## NBP1-30327

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

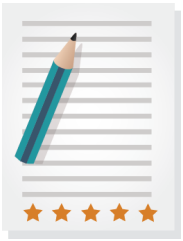


**Publications: 7**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-30327

Updated 4/13/2025 v.20.1





# NBP1-30327

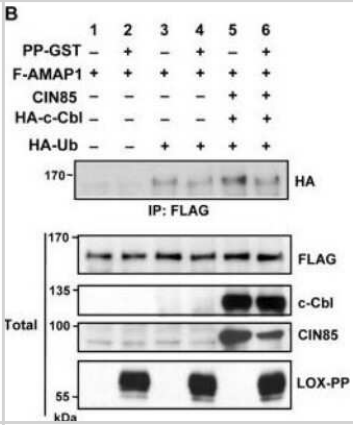
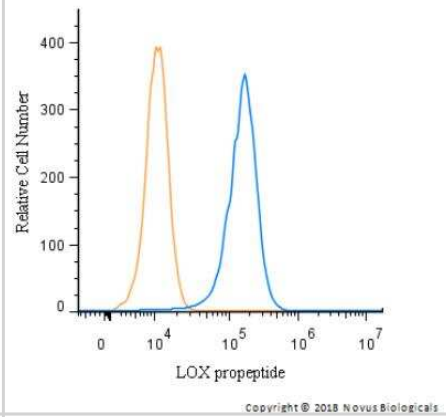
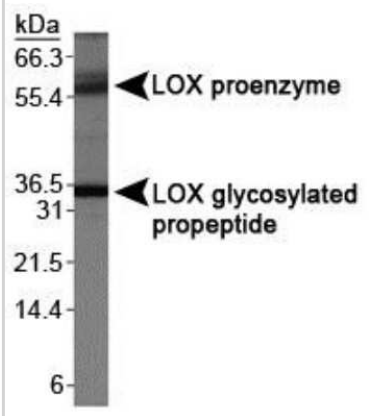
LOX propeptide Antibody - BSA Free

| Product Information | |
|---|---|
| **Unit Size** | 0.1 ml |
| **Concentration** | 1 mg/ml |
| **Storage** | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| **Clonality** | Polyclonal |
| **Preservative** | 0.1% Sodium Azide |
| **Isotype** | IgG |
| **Purity** | Immunogen affinity purified |
| **Buffer** | PBS and 30% Glycerol |

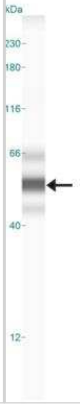
| Product Description | |
|---|---|
| **Host** | Rabbit |
| **Gene ID** | 4015 |
| **Gene Symbol** | LOX |
| **Species** | Human, Rat |
| **Specificity/Sensitivity** | This antibody recognizes the glycosylated propeptide form (~35 kDa) and the proenzyme form (~50 kDa). |
| **Immunogen** | Synthetic peptide made to an internal portion of human LOX propeptide (within residues 118-168). [Swiss-Prot# P28300] |

| Product Application Details | |
|---|---|
| **Applications** | Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation |
| **Recommended Dilutions** | Western Blot 0.5 ug/ml, Simple Western 1:200, Flow Cytometry 1:200, Immunocytochemistry/ Immunofluorescence 1:200, Immunoprecipitation 1:10-1:500. Use reported in scientific literature (PMID 21536655) |
| **Application Notes** | In WB a band can be seen at ~35 kDa (glycosylated propeptide form) and at ~50 kDa (proenzyme form).<br><br>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.<br>See Simple Western Antibody Database for Simple Western validation: Tested in MCF-7 lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:200, apparent MW was 56 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. |

## Images

| | |
|---|---|
| Western Blot: LOX propeptide Antibody [NBP1-30327] - LOX-PP reduces CIN85 mono-ubiquitination and ability to interact with c-Cbl. HEK293T cells were transfected with AMAP1-FLAG, CIN85, HA-c-Cbl, HA-ubiquitin and LOX-PP-GST (PP-GST) as indicated and subjected to a ubiquitination assay. FLAG-tagged AMAP1 was immunoprecipitated and total whole cell extracts were subjected to WB with the indicated antibodies (lower panel). Data were quantified and relative mono-ubiquitination of AMAP1 with and without LOX-PP was determined by averaging the results of three independent experiments. Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0077288), licensed under a CC-BY license. |  |
| Immunocytochemistry/Immunofluorescence: LOX propeptide Antibody [NBP1-30327] - Staining in Hela cells detected with a Dylight 488 labeled secondary antibody (Green) with Hoechst 33258 nuclear counterstain (Blue). |  |
| Flow Cytometry: LOX propeptide Antibody [NBP1-30327] - An intracellular stain was performed on HeLa with LOX propeptide Antibody NBP1-30327 and a matched isotype control. Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, . |  |
| Western Blot: LOX propeptide Antibody [NBP1-30327] - Analysis of LOX propeptide on MDA-MB-231 using NBP1-30327. |  |

Simple Western: LOX propeptide Antibody [NBP1-30327] - Simple Western lane view shows a specific band for LOX in 0.5 mg/ml of MCF-7 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.




## Publications

Mahapatra S, Sharma MVR, Brownson B et al. Cardiac inducing colonies halt fibroblast activation and induce cardiac/endothelial cells to move and expand via paracrine signaling Molecular biology of the cell 2022-06-02 [PMID: 35653297] (WB, Human)

Mahapatra S Secretion of Cardioprotective Factors from Cardiac Inducing Colonies (Cics) Derived from Germline Pluripotent Stem Cells (Hgpscs) to Combat Myocardial Fibrosis Thesis 1905-07-13 (WB)

Mahapatra S Secretion of Cardioprotective Factors from Cardiac Inducing Colonies (Cics) Derived from Germline Pluripotent Stem Cells (Hgpscs) to Combat Myocardial Fibrosis Thesis Jul 13 1905 12:00AM (WB)

Yokoyama U, Minamisawa S, Shioda A et al. Prostaglandin E2 inhibits elastogenesis in the ductus arteriosus via EP4 signaling Circulation et al. 2014-01-28 [PMID: 24146253] (WB, Rat)

Details:
LOX propeptide/ pro-LOX antibody used for WB on lysates of rat's ductus arteriosus smooth muscle cells (DASMCs) treated or not with AE1-329.

Sato S, Zhao Y, Imai M et al. Inhibition of CIN85-Mediated Invasion by a Novel SH3 Domain Binding Motif in the Lysyl Oxidase Propeptide. PLoS One. 2013-10-22 [PMID: 24167568] (WB, Human)

Sato S, Trackman PC, Maki JM et al. The Ras Signaling Inhibitor LOX-PP Interacts with Hsp70 and c-Raf To Reduce Erk Activation and Transformed Phenotype of Breast Cancer Cells. Mol. Cell. Biol. 2011-01-01 [PMID: 21536655] (WB, IP, Human)

Sanchez-Morgan N, Kirsch KH, Trackman PC, Sonenshein GE. The Lysyl Oxidase Propeptide Interacts with the Receptor-Type Protein Tyrosine Phosphatase-Kappa (RPTP-{kappa}) and Inhibits {beta}-Catenin Transcriptional Activity in Lung Cancer Cells. Mol Cell Biol. 2011-06-20 [PMID: 21690299] (WB, Human)

## Procedures

**Serum protocol for LOX propeptide Antibody (NBP1-30327)**
LOX propeptide Antibody:
Western Blot Protocol
1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 30 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH2O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% NFDM + 1% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-LOX propeptide primary antibody (NBP1-30327) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).
Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

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## Products Related to NBP1-30327

| | |
|---|---|
| NB800-PC2 | Jurkat Whole Cell Lysate |
| NBP1-30327PEP | LOX propeptide Antibody Blocking Peptide |
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |

### 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.

**For more information on our 100% guarantee, please visit www.novusbio.com/guarantee**

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