

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.

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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	
Description	Novus Biologicals Rabbit LOX propeptide Antibody - BSA Free (NBP1-30327) is a polyclonal antibody validated for use in WB, Flow, ICC/IF, Simple Western and IP. Anti-LOX propeptide Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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). In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. 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

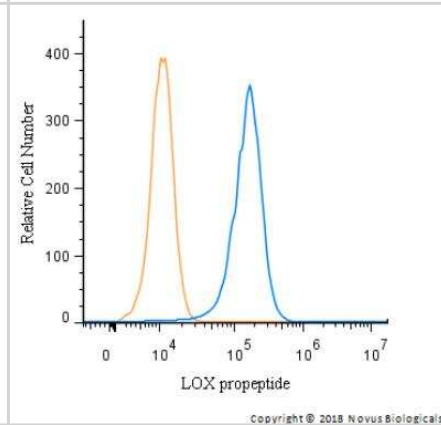
Western Blot: LOX propeptide Antibody [NBP1-30327] - LOX-PP reduces CIN85 mono-ubiquitination and ability to interact with c-Cbl. HEK293T cells were transfected with AMAP1-FLAG, CIN85, HA-c-Cbl, HA-ubiquitin and LOX-PP-GST (PP-GST) as indicated and subjected to a ubiquitination assay. FLAG-tagged AMAP1 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.



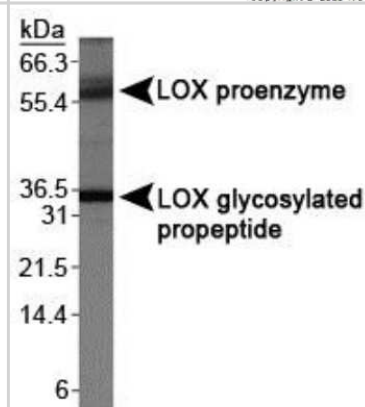
Immunocytochemistry/Immunofluorescence: LOX propeptide Antibody [NBP1-30327] - Staining in Hela cells detected with a Dylight 488 labeled secondary antibody (Green) with Hoechst 33258 nuclear counterstain (Blue).



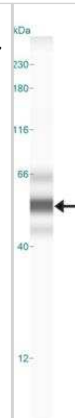
Flow Cytometry: LOX propeptide Antibody [NBP1-30327] - An intracellular stain was performed on HeLa with LOX propeptide Antibody NBP1-30327 and a matched isotype control. Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 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 (Hgpsc) 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 (Hgpsc) 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- κ) and Inhibits β -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% NFD_M + 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
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

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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