

# Product Datasheet

## Lactoperoxidase Antibody - BSA Free NB110-61574

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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**NB110-61574****Lactoperoxidase Antibody - BSA Free**

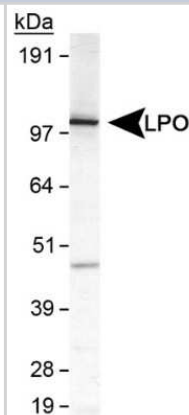
| Product Information     |  |
|-------------------------|--|
| Unit Size               | 0.1 ml   |
| Concentration           | 1.5 mg/ml  |
| Storage                 | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality               | Polyclonal   |
| Preservative            | 0.1% Sodium Azide  |
| Isotype                 | IgG  |
| Purity                  | Immunogen affinity purified  |
| Buffer                  | PBS and 30% Glycerol   |
| Target Molecular Weight | 100 kDa  |

| Product Description |   |
|---------------------|---|
| Host                | Rabbit  |
| Gene ID             | 4025  |
| Gene Symbol         | LPO   |
| Species             | Human, Mouse, Bovine, Goat, Sheep   |
| Immunogen           | Synthetic peptide made to a C-terminal portion of the human Lactoperoxidase protein (within residues 650-712). [Swiss-Prot# P22079] |

| Product Application Details |  |
|-----------------------------|--|
| Applications                | Western Blot   |
| Recommended Dilutions       | Western Blot 0.5-2 ug/ml   |
| Application Notes           | This Lactoperoxidase antibody is useful for Western blot analysis where a band is seen at ~100 kDa. Caution, do not use milk for the blocking or dilution buffers. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. |

**Images**

Western Blot: Lactoperoxidase Antibody [NB110-61574] - Detection of LPO in MDA-MB231 cell lysate



## Procedures

### Western Blot protocol for Lactoperoxidase Antibody (NB110-61574)

Lactoperoxidase Antibody:

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 38 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 dH<sub>2</sub>O 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% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-LPO primary antibody (NB 110-61574) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH<sub>2</sub>O 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 NB110-61574**

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|              |   |
|--------------|---|
| HAF008       | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160       | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891   | Rabbit IgG Isotype Control                          |
| NB110-61574B | Lactoperoxidase Antibody [Biotin]                   |

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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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