

# Product Datasheet

## Lactyl-Lysine Antibody (PSH03-73) NBP3-33149

Unit Size: 100 ul

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

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Updated 8/7/2025 v.20.1

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**NBP3-33149****Lactyl-Lysine Antibody (PSH03-73)****Product Information**

<b>Unit Size</b>	100 ul
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	PSH03-73
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS (pH7.4), 0.1% BSA and 40% Glycerol

**Product Description**

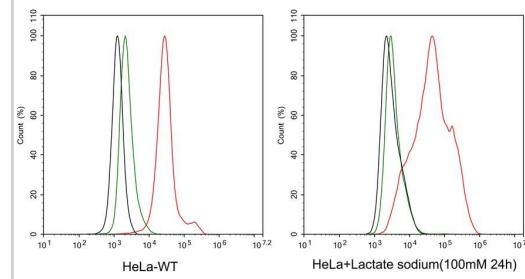
<b>Host</b>	Rabbit
<b>Species</b>	Non-species specific
<b>Immunogen</b>	Synthetic lactyl lysine-containing peptide.

**Product Application Details**

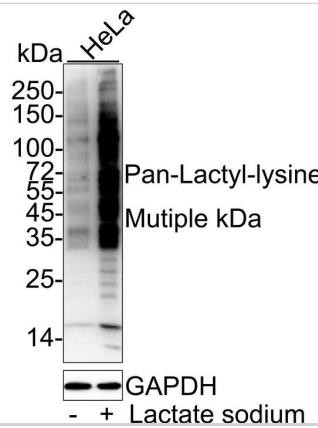
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Dot Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:2000, Flow Cytometry 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:1000, Immunohistochemistry-Paraffin 1:500-1:1000, Dot Blot 1:2000

**Images**

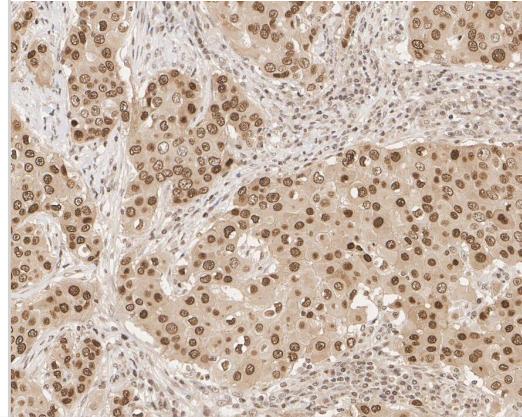
Flow cytometric analysis of HeLa cells treated with or without 100mM Lactate sodium for 24 hours labeling Lactyl-Lysine. Cells were fixed and permeabilized. Then stained with the primary antibody (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4°C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1:1,000 dilution for 30 minutes at +4°C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).



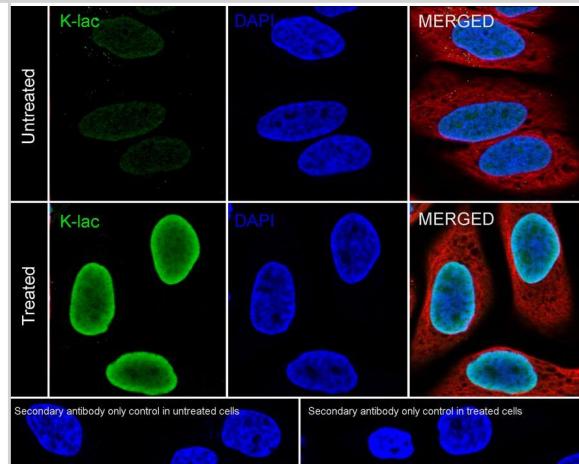
Western blot analysis of Lactyl-Lysine on different lysates with Lactyl-Lysine Antibody (PSH03-73) at 1:2,000 dilution. Lane 1: HeLa cell lysate Lane 2: HeLa treated with 100mM Lactate sodium for 24 hours cell lysate Lysates/proteins at 20 µg/Lane. Observed band size: Multiple kDa Exposure time: 59 seconds; 4-20% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1:2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:50,000 dilution was used for 1 hour at room temperature.



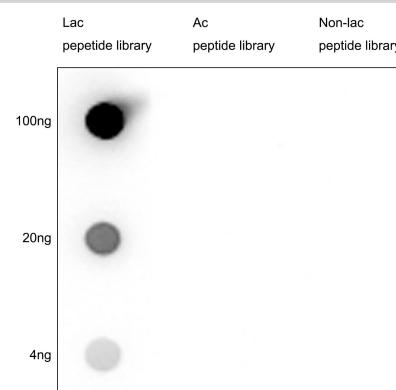
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue with Lactyl-Lysine Antibody (PSH03-73) at 1:1,000 dilution. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with The primary antibody at 1:1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunocytochemistry analysis of HeLa cells treated with or without 100mM Lactate sodium for 24 hours labeling Lactyl-Lysine with Lactyl-Lysine Antibody (PSH03-73) at 1:1,000 dilution. Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Lactyl-Lysine Antibody (PSH03-73) at 1:1,000 dilution in 1% BSA in PBST overnight at 4°C. Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1:1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI. Beta tubulin (M1305-2, red) was stained at 1:100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594) was used as the secondary antibody at 1:1,000 dilution.



Dot blot analysis of Lactyl-Lysine on different proteins with Lactyl-Lysine Antibody (PSH03-73) at 1:2,000 dilution. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:50,000 dilution for 1 hour at room temperature. Lane 1: Lac peptide library (positive) Lane 2: Ac peptide library (Lys4) (negative) Lane 3: Non-lac peptide library (negative) Proteins loading: 100ng, 20ng, 4ng; Blocking and dilution buffer: 5% NFDM/TBST; Exposure time: 20 seconds.





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## Products Related to NBP3-33149

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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