

# Product Datasheet

## Peroxiredoxin 5 Antibody (PSH03-90) NBP3-32740

Unit Size: 100 ul

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

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**NBP3-32740**

Peroxiredoxin 5 Antibody (PSH03-90)

Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	PSH03-90
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS (pH7.4), 0.1% BSA and 40% Glycerol
Target Molecular Weight	22 kDa

Product Description	
Description	Novus Biologicals Rabbit Peroxiredoxin 5 Antibody (PSH03-90) (NBP3-32740) is a recombinant monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	25824
Gene Symbol	PRDX5
Species	Human, Mouse, Rat
Immunogen	Recombinant protein within human Peroxiredoxin 5 aa 31-214 / 214. (Uniprot: P30044)

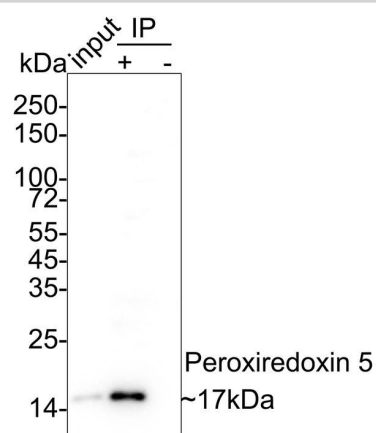
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:20000-1:50000, Flow Cytometry 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 1-2ug/sample, Immunohistochemistry-Paraffin 1:10000

**Images**

Immunoprecipitation: Peroxiredoxin 5 Antibody (PSH03-90) [NBP3-32740] - Peroxiredoxin 5 was immunoprecipitated in 0.2mg HeLa cell lysate with NBP3-32740 at 2 ug/25 ul agarose. Western blot was performed from the immunoprecipitate using NBP3-32740 at 1/5,000 dilution. Anti-Rabbit IgG for IP Nano-secondary antibody at 1/5,000 dilution was used for 1 hour at room temperature.

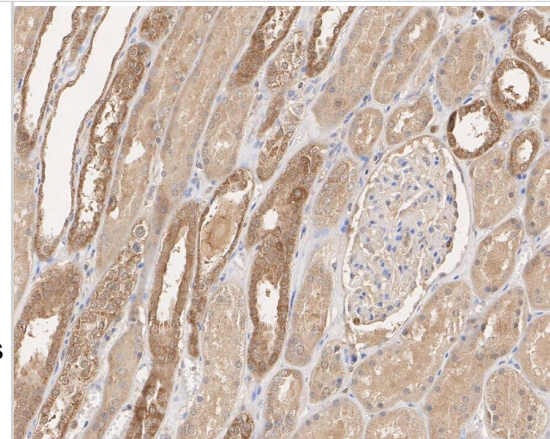
Lane 1: HeLa cell lysate (input)  
 Lane 2: NBP3-32740 IP in HeLa cell lysate  
 Lane 3: Rabbit IgG instead of NBP3-32740 in HeLa cell lysate

Blocking/Dilution buffer: 5% NFDm/TBST  
 Exposure time: 43 seconds; ECL



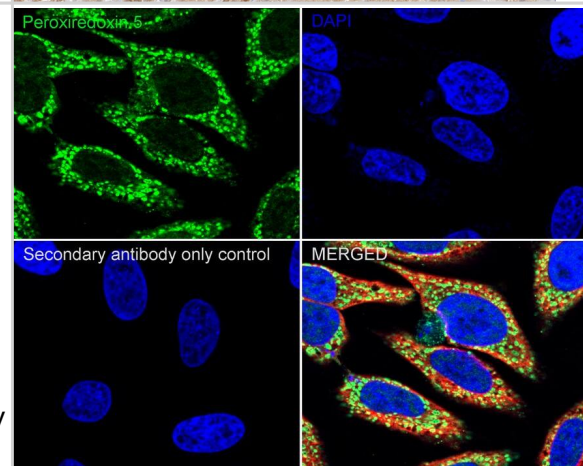
**Immunohistochemistry: Peroxiredoxin 5 Antibody (PSH03-90) [NBP3-32740]** - Immunohistochemical analysis of paraffin-embedded human kidney tissue with Rabbit anti-Peroxiredoxin 5 antibody (NBP3-32740) at 1/10,000 dilution.

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 (NBP3-32740) at 1/10,000 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/ Immunofluorescence: Peroxiredoxin 5 Antibody (PSH03-90) [NBP3-32740]** - Immunocytochemistry analysis of HeLa cells labeling Peroxiredoxin 5 with Rabbit anti-Peroxiredoxin 5 antibody (NBP3-32740) at 1/100 dilution.

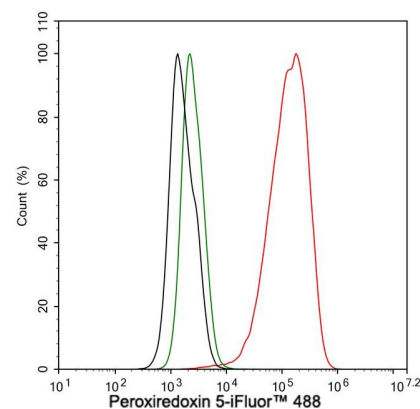
Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Peroxiredoxin 5 antibody (NBP3-32740) at 1/100 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 (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.

**Flow Cytometry: Peroxiredoxin 5 Antibody (PSH03-90) [NBP3-32740]** - Flow cytometric analysis of HeLa cells labeling Peroxiredoxin 5.

Cells were fixed and permeabilized. Then stained with the primary antibody (NBP3-32740, 1 µg/mL) (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: Peroxiredoxin 5 Antibody (PSH03-90) [NBP3-32740] -  
Western blot analysis of Peroxiredoxin 5 on different lysates with Rabbit  
anti-Peroxiredoxin 5 antibody (NBP3-32740) at 1/50,000 dilution.

Lane 1: HeLa cell lysate (10 µg/Lane)

Lane 2: A549 cell lysate (10 µg/Lane)

Lane 3: MCF7 cell lysate (10 µg/Lane)

Lane 4: Mouse liver tissue lysate (15 µg/Lane)

Lane 5: Mouse kidney tissue lysate (15 µg/Lane)

Lane 6: Rat liver tissue lysate (15 µg/Lane)

Lane 7: Rat kidney tissue lysate (15 µg/Lane)

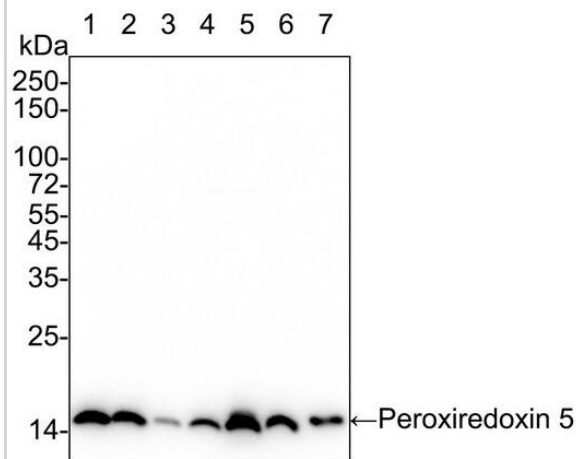
Predicted band size: 22 kDa

Observed band size: 17 kDa

Exposure time: 10 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  
1/50,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat  
Anti-Rabbit IgG - HRP Secondary Antibody at 1/200,000 dilution was  
used for 1 hour at room temperature.





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### **Products Related to NBP3-32740**

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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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