

# Product Datasheet

## Peroxiredoxin 1 Antibody - BSA Free NBP1-82558

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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Updated 12/2/2025 v.20.1

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**NBP1-82558****Peroxiredoxin 1 Antibody - BSA Free**

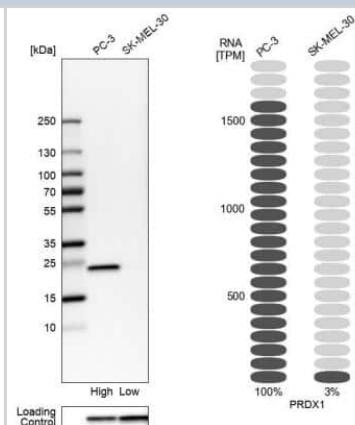
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit Peroxiredoxin 1 Antibody - BSA Free (NBP1-82558) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Peroxiredoxin 1 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	5052
<b>Gene Symbol</b>	PRDX1
<b>Species</b>	Human
<b>Reactivity Notes</b>	Human reactivity reported in scientific literature (PMID: 25011585).
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: KGKYVVFYPLDFTFVCPTEIIAFSDRAEEFKKLNQVIGASVDSHFCHLAWVN TPKKQGGGLGPMNIPLVSDPKRTIAQDYGVKKADEGISFRGLFIIDDKGILRQITVN DLPVGRSVDETLRL

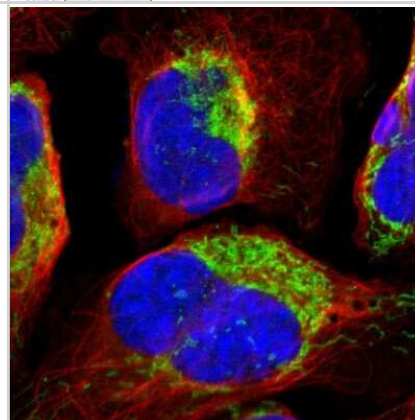
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000
<b>Application Notes</b>	IHC, WB reported in scientific literature (PMID: 25011585). For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: PFA/Triton X-100

## Images

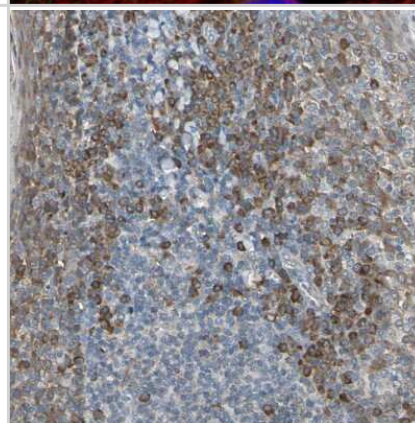
Western Blot: Peroxiredoxin 1 Antibody [NBP1-82558] - Analysis in human cell lines PC-3 and SK-MEL-30 using Anti-PRDX1 antibody. Corresponding PRDX1 RNA-seq data are presented for the same cell lines. Loading control: Anti-GAPDH.



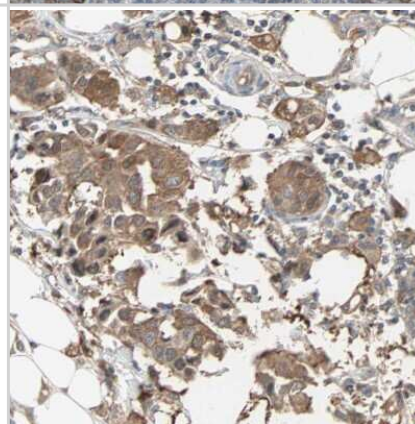
Immunocytochemistry/Immunofluorescence: Peroxiredoxin 1 Antibody [NBP1-82558] - Staining of human cell line U-2 OS shows localization to mitochondria. Antibody staining is shown in green.



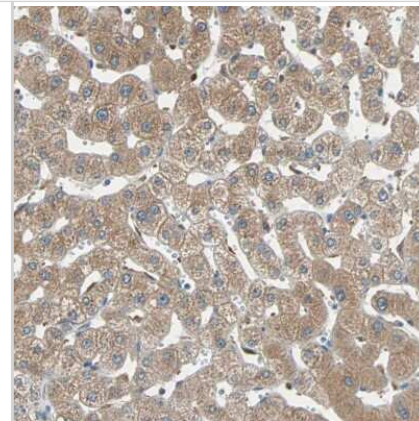
Immunohistochemistry-Paraffin: Peroxiredoxin 1 Antibody [NBP1-82558] - Staining of human tonsil shows moderate to strong cytoplasmic positivity in non-germinal center cells.



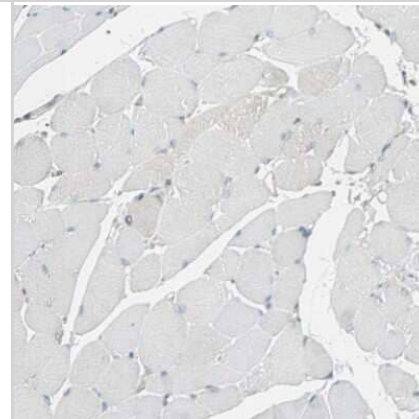
Immunohistochemistry-Paraffin: Peroxiredoxin 1 Antibody [NBP1-82558] - Staining of human breast cancer shows strong cytoplasmic positivity in tumor cells.



Immunohistochemistry-Paraffin: Peroxiredoxin 1 Antibody [NBP1-82558]  
- Staining of human liver shows moderate cytoplasmic positivity in hepatocytes.



Immunohistochemistry-Paraffin: Peroxiredoxin 1 Antibody [NBP1-82558]  
- Staining of human skeletal muscle shows no positivity in myocytes as expected.



## Publications

Zhou M, Liu S, Wang Y et al. AIF3 splicing variant elicits mitochondrial malfunction via the concurrent dysregulation of electron transport chain and glutathione-redox homeostasis *Nature Communications* 2025-02-20 [PMID: 39979311]

Dahou H, Minati MA, Jacquemin P, Assi M. Genetic Inactivation of Peroxiredoxin-I Impairs the Growth of Human Pancreatic Cancer Cells *Antioxidants (Basel)* 2021-04-08 [PMID: 33917763]

Minati MA, Libert M, Dahou H et al. N-Acetylcysteine Reduces the Pro-Oxidant and Inflammatory Responses during Pancreatitis and Pancreas Tumorigenesis *Antioxidants (Basel)* 2021-07-11 [PMID: 34356340]

Liu H, Ke S, Xie M et al. The regulation of expression and splicing of transcription factors are related to the muscle damage caused by radiation in tree shrews *Biochemical and biophysical research communications* 2023-05-22 [PMID: 37247592]

Aouida M, Aljogol D, Ali R, Ramotar D A simple protocol to isolate a single human cell PRDX1 knockout generated by CRISPR-Cas9 system *STAR protocols* 2022-03-18 [PMID: 35284843]

Zhu J, Zheng X, Lu D et al. Clinical Relevance and Tumor Growth Suppression of Mitochondrial ROS Regulators along NADH:Ubiquinone Oxidoreductase Subunit B3 in Thyroid Cancer *Oxidative medicine and cellular longevity* 2022-01-17 [PMID: 35087620] (WB)

O'Leary PC, Terrile M, Bajor M et al. Peroxiredoxin-1 protects estrogen receptor alpha from oxidative stress-induced suppression and is a protein biomarker of favorable prognosis in breast cancer. *Breast Cancer Res* 2014-07-10 [PMID: 25011585] (WB, IF/IHC, Human)

Kamper P, Ludvigsen M, Bendix K et al. Proteomic analysis identifies galectin-1 as a predictive biomarker for relapsed/refractory disease in classical Hodgkin lymphoma. *Blood* 2011-06-01 [PMID: 21505194]

Dammeyer P, Arner ES., et al. Human Protein Atlas of redox systems - What can be learnt? *Biochim Biophys Acta* 2010-07-18 [PMID: 20647035]



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### **Products Related to NBP1-82558**

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NBP1-82558PEP	Peroxiredoxin 1 Recombinant Protein Antigen
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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