

# 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.

[www.novusbio.com](http://www.novusbio.com)



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### Publications: 8

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Updated 2/21/2025 v.20.1

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**NBP1-82558**

Peroxiredoxin 1 Antibody - BSA Free

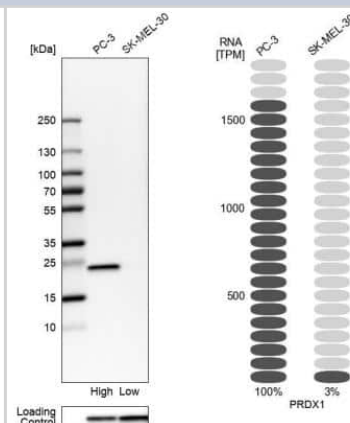
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Host	Rabbit
Gene ID	5052
Gene Symbol	PRDX1
Species	Human
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 25011585).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: KGKYVVFYPLDFTFVCPTEIIAFSDRAEEFKKLNCQVIGASVDSHFCHLAWVN TPKKQGGLGPMNIPLVSDPKRTIAQDYGVKKADEGISFRGLFIIDDKGILRQITVN DLPVGRSVDETLRL

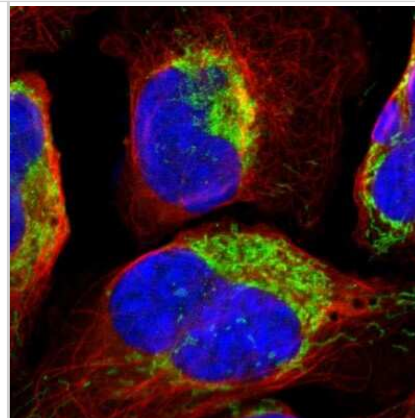
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	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**

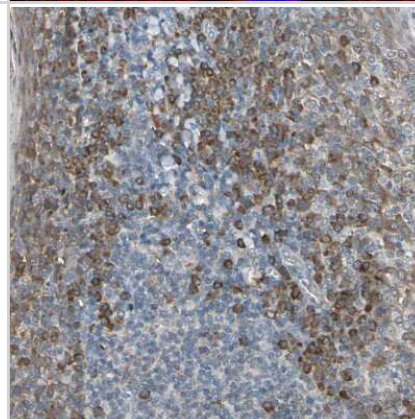
Western Blot: Peroxiredoxin 1 Antibody [NBP1-82558] - Analysis in human cell lines PC-3 and SK-MEL-30 using Anti-PRDX1 antibody. Corresponding PRDX1 RNA-seq data are presented for the same cell lines. Loading control: Anti-GAPDH.



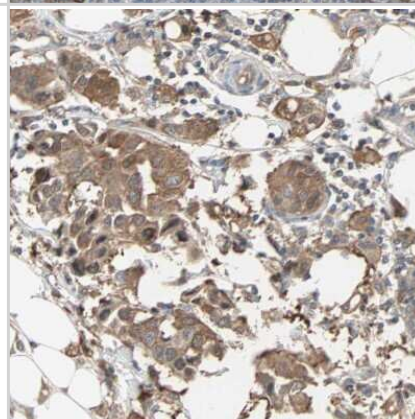
Immunocytochemistry/Immunofluorescence: Peroxiredoxin 1 Antibody [NBP1-82558] - Staining of human cell line U-2 OS shows localization to mitochondria. Antibody staining is shown in green.



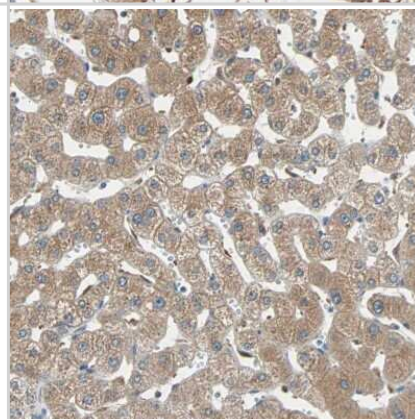
Immunohistochemistry-Paraffin: Peroxiredoxin 1 Antibody [NBP1-82558] - Staining of human tonsil shows moderate to strong cytoplasmic positivity in non-germinal center cells.



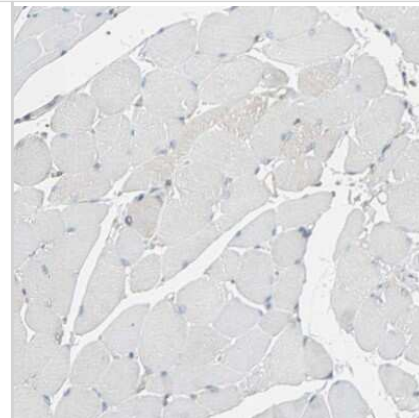
Immunohistochemistry-Paraffin: Peroxiredoxin 1 Antibody [NBP1-82558] - Staining of human breast cancer shows strong cytoplasmic positivity in tumor cells.



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

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] (Immunohistochemistry)

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
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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