Product Datasheet

Peroxiredoxin 4 Antibody - BSA Free
NBP2-19778

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Publications: 1

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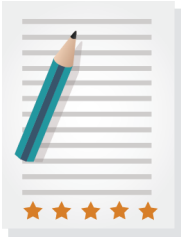
www.novusbio.com/NBP2-19778

Updated 9/9/2025 v.20.1



NBP2-19778

Peroxiredoxin 4 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	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Thimerosal
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	0.1M Tris (pH 7), 0.1M Glycine, 20% Glycerol
Target Molecular Weight	31 kDa

Product Description

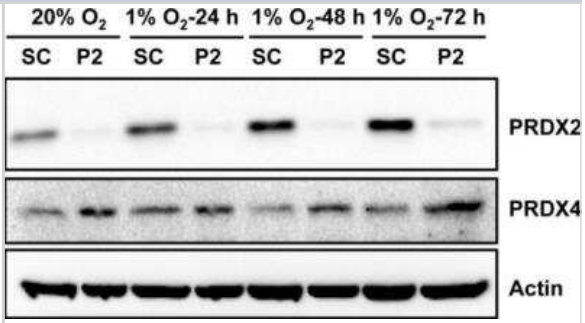
Description	Novus Biologicals Rabbit Peroxiredoxin 4 Antibody - BSA Free (NBP2-19778) is a polyclonal antibody validated for use in IHC and WB. Anti-Peroxiredoxin 4 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	10549
Gene Symbol	PRDX4
Species	Human, Mouse
Immunogen	Recombinant protein encompassing a sequence within the center region of human Peroxiredoxin 4. The exact sequence is proprietary.

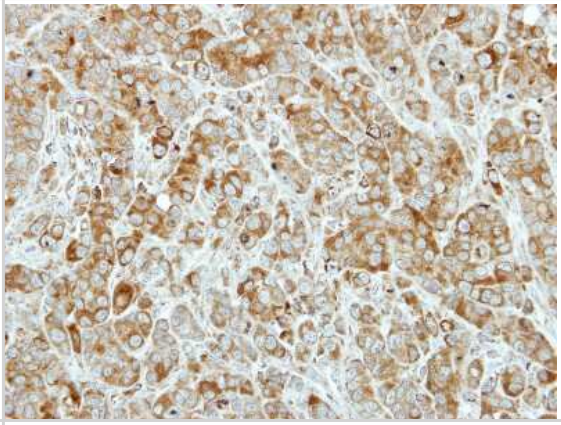
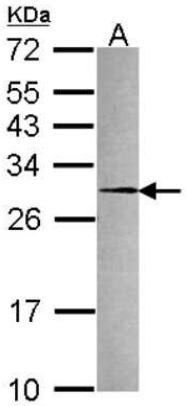
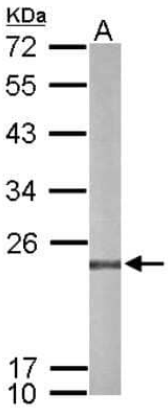
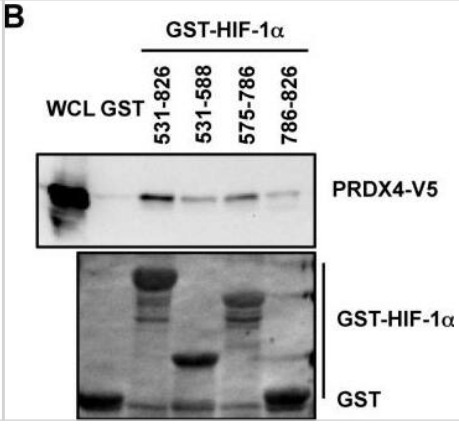
Product Application Details

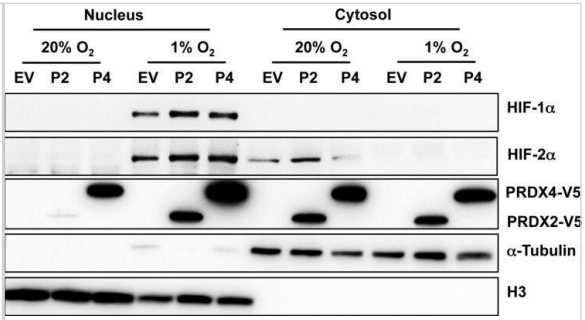
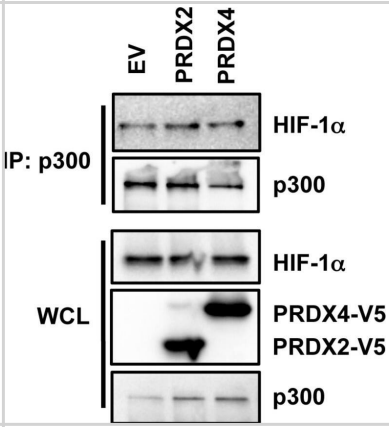
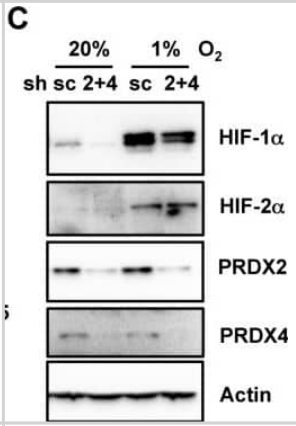
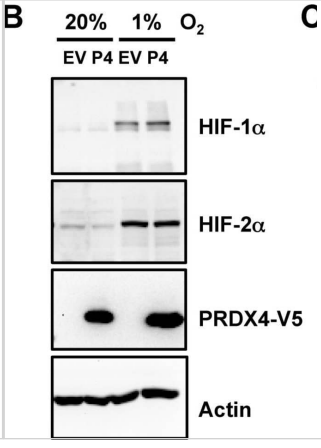
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000

Images

Western Blot: Peroxiredoxin 4 Antibody [NBP2-19778] - PRDX2 knockdown increases PRDX4 protein levels in HeLa cellsHeLa subclones were exposed to 20% or 1% O2 for indicated time. Each WCL was subject to immunoblot assays with the indicated antibodies. Image collected and cropped by CiteAb from the following publication (oncotarget.com/abstract/7142), licensed under a CC-BY license.



Immunohistochemistry-Paraffin: Peroxiredoxin-4 Antibody [NBP2-19778] - Immunohistochemical analysis of paraffin-embedded MCF7 xenograft, using antibody at 1:250 dilution.	
Western Blot: Peroxiredoxin-4 Antibody [NBP2-19778] - Sample (30 ug of whole cell lysate) A: NT2D1 12% SDS PAGE gel, diluted at 1:1000.	
Western Blot: Peroxiredoxin-4 Antibody [NBP2-19778] - Sample (50 ug of whole cell lysate) A: Mouse Brain, 12% SDS PAGE gel, diluted at 1:1000.	
Mapping the PRDX2 & PRDX4 binding domains of HIF-1αA. & B. HeLa cells were transfected with PRDX2-V5 (A) or PRDX4-V5 (B) vector & WCL was incubated with purified GST or GST-HIF-1α fusion protein in the presence of glutathione-Sepharose beads, followed by immunoblot assays with anti-V5 antibody (upper panels) or Ponceau S staining (lower panels). Image collected & cropped by CiteAb from the following publication (https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.7142), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Hypoxia induces the nuclear translocation of PRDX2 & PRDX4HeLa cells were transfected with vector encoding PRDX2-V5 (P2) or PRDX4-V5 (P4), or empty vector (EV), & exposed to 20% or 1% O2 for 48 h. Nuclear & cytosolic fractions were isolated & subject to immunoblot assays with antibodies against HIF-1α, HIF-2α, V5, α-tubulin, & histone H3. Image collected & cropped by CiteAb from the following publication (https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.7142), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Effect of PRDX2 & PRDX4 on HIF-1α-p300 interactionHeLa cells were transfected with empty vector (EV) or vector encoding PRDX2-V5 or PRDX4-V5, & exposed to 1% O2 for 24 h. WCL was subject to IP with anti-p300 antibody, followed by immunoblot assays using antibodies against HIF-1α, V5, & p300. Image collected & cropped by CiteAb from the following publication (https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.7142), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Expression of PRDX2 or PRDX4 does not affect HIF-1α or HIF-2α protein levelsA. & B. HeLa cells were transfected with EV or vector encoding PRDX2-V5 (A, P2) or PRDX4-V5 (B, P4), & exposed to 20% or 1% O2 for 24 h. WCL was subject to immunoblot assays with antibody against HIF-1α, HIF-2α, V5, or acin. C. HeLa-shSC (sc) & HeLa-shPRDX (2+4) (2+4) cells were exposed to 20% or 1% O2 for 24 h in the presence of doxycycline. WCL was subject to immunoblot assays with antibodies against HIF-1α, HIF-2α, PRDX2, PRDX4, & actin. Image collected & cropped by CiteAb from the following publication (https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.7142), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Western Blot: Peroxiredoxin 4 Antibody [NBP2-19778] - Expression of PRDX2 or PRDX4 does not affect HIF-1α or HIF-2α protein levelsA. & B. HeLa cells were transfected with EV or vector encoding PRDX2-V5 (A, P2) or PRDX4-V5 (B, P4), & exposed to 20% or 1% O2 for 24 h. WCL was subject to immunoblot assays with antibody against HIF-1α, HIF-2α, V5, or acin. C. HeLa-shSC (sc) & HeLa-shPRDX(2+4) (2+4) cells were exposed to 20% or 1% O2 for 24 h in the presence of doxycycline. WCL was subject to immunoblot assays with antibodies against HIF-1α, HIF-2α, PRDX2, PRDX4, & actin. Image collected & cropped by CiteAb from the following publication (https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.7142), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

Luo W, Chen I, Chen Y et al. PRDX2 and PRDX4 are negative regulators of hypoxia-inducible factors under conditions of prolonged hypoxia Oncotarget. 2016-02-09 [PMID: 26837221] (WB)

Details:
The mechanism for feedback inhibition of hypoxia-inducible factors during prolonged hypoxia is clarified through studying the interaction of PRDX2 and PRDX4 with HIF-1 alpha and HIF-2 alpha.

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NBP1-41141	Recombinant Human Peroxiredoxin 4 His Protein

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