

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.

www.novusbio.com



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Publications: 1

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NBP2-19778**Peroxiredoxin 4 Antibody - BSA Free**

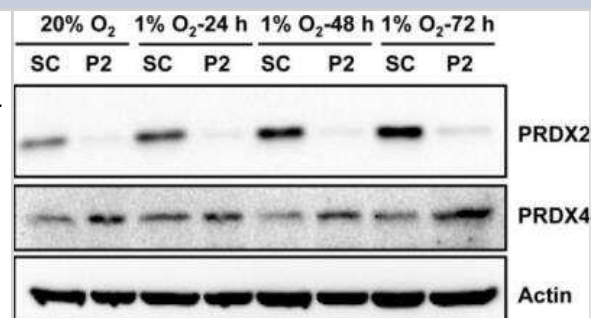
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Thimerosal
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	0.1M Tris, 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.

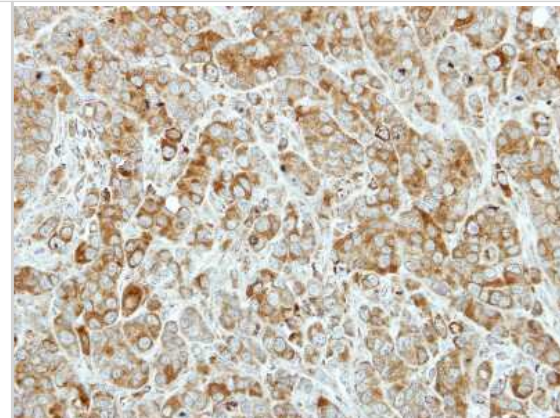
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000

Images

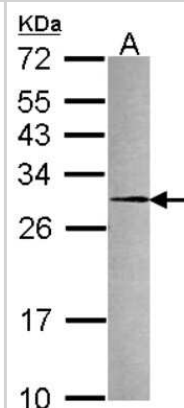
Western Blot: Peroxiredoxin 4 Antibody [NBP2-19778] - PRDX2 knockdown increases PRDX4 protein levels in HeLa cells. HeLa subclones were exposed to 20% or 1% O₂ for indicated time. Each WCL was subject to immunoblot assays with the indicated antibodies. Image collected and cropped by CiteAb from the following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



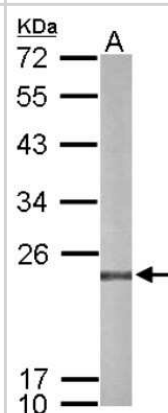
Immunohistochemistry-Paraffin: Peroxiredoxin-4 Antibody [NBP2-19778] - Immunohistochemical analysis of paraffin-embedded MCF7 xenograft, using antibody at 1:250 dilution.



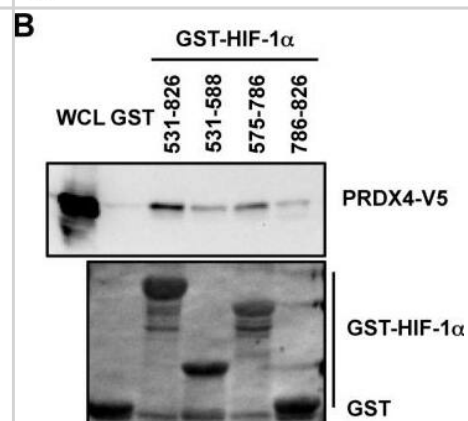
Western Blot: Peroxiredoxin-4 Antibody [NBP2-19778] - Sample (30 ug of whole cell lysate) A: NT2D1 12% SDS PAGE gel, diluted at 1:1000.



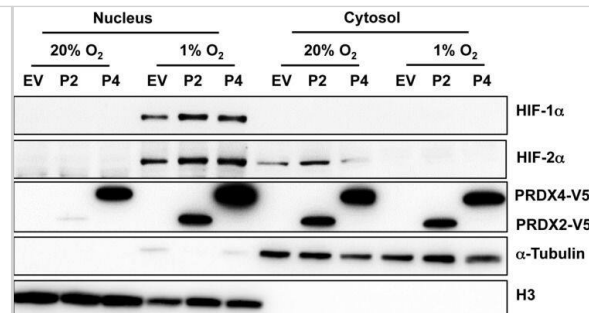
Western Blot: Peroxiredoxin-4 Antibody [NBP2-19778] - Sample (50 ug of whole cell lysate) A: Mouse Brain, 12% SDS PAGE gel, diluted at 1:1000.



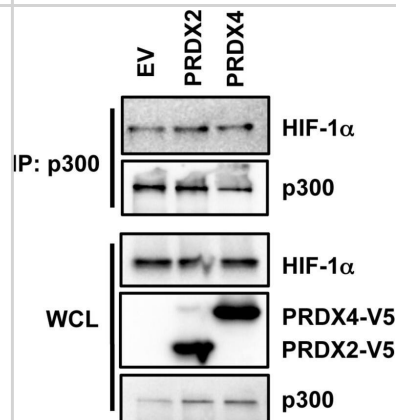
Mapping the PRDX2 & PRDX4 binding domains of HIF-1 α . A & B. HeLa cells were transfected with PRDX2-V5 (A) or PRDX4-V5 (B) vector & WCL was incubated with purified GST or GST-HIF-1 α fusion protein in the presence of glutathione-Sepharose beads, followed by immunoblot assays with anti-V5 antibody (upper 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.



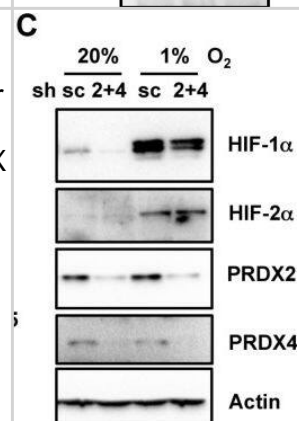
Hypoxia induces the nuclear translocation of PRDX2 & PRDX4. HeLa cells were transfected with vector encoding PRDX2-V5 (P2) or PRDX4-V5 (P4), or empty vector (EV), & exposed to 20% or 1% O₂ for 48 h. Nuclear & cytosolic fractions were isolated & subject to immunoblot assays with antibodies against HIF-1 α , HIF-2 α , 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.



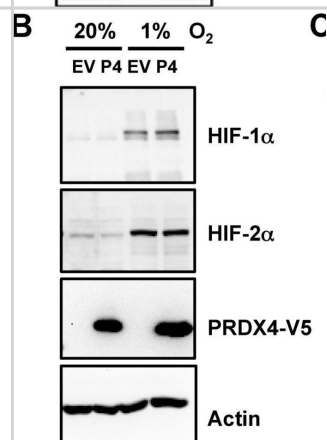
Effect of PRDX2 & PRDX4 on HIF-1 α -p300 interaction. HeLa cells were transfected with empty vector (EV) or vector encoding PRDX2-V5 or PRDX4-V5, & exposed to 1% O₂ for 24 h. WCL was subject to IP with anti-p300 antibody, followed by immunoblot assays using antibodies against HIF-1 α , V5, & p300. Image 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-1 α or HIF-2 α protein levels. A. & 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-1 α , HIF-2 α , V5, or actin. 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-1 α , HIF-2 α , 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-1 α or HIF-2 α protein levels. A. & 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-1 α , HIF-2 α , V5, or actin. 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-1 α , HIF-2 α , 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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Products Related to NBP2-19778

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

Limitations

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