

# Product Datasheet

## V5 Epitope Tag Antibody - BSA Free NB600-381

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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



[technical@novusbio.com](mailto:technical@novusbio.com)

**Reviews: 3** **Publications: 69**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NB600-381](http://www.novusbio.com/NB600-381)

Updated 9/9/2025 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NB600-381](http://www.novusbio.com/reviews/destination/NB600-381)



**NB600-381**

V5 Epitope Tag Antibody - BSA Free

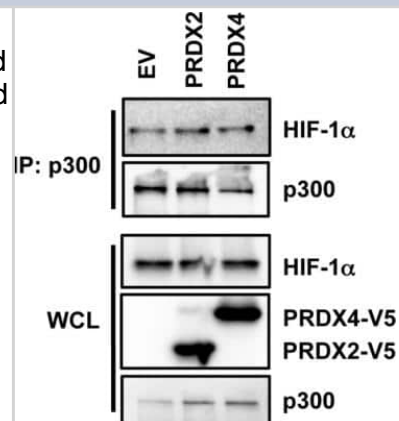
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rabbit V5 Epitope Tag Antibody - BSA Free (NB600-381) is a polyclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF and IP. Anti-V5 Epitope Tag Antibody: Cited in 67 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Species	Epitope Tag
Immunogen	Rabbits were immunized with a synthetic peptide representing amino acid residues 95 to 108 of RNA polymerase alpha subunit of simion virus 5 conjugated to KLH.

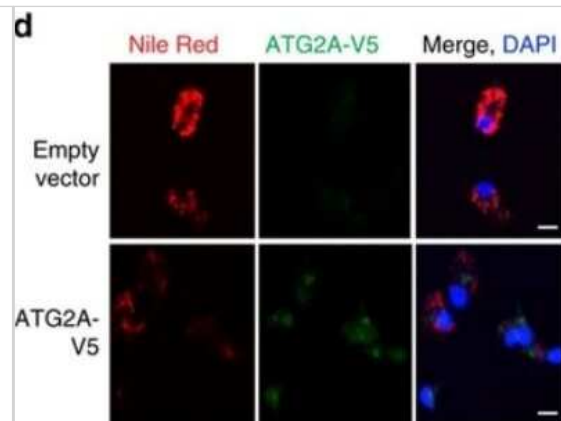
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000 - 1:30000, Flow Cytometry, ELISA 1:1000 - 1:30000, Immunohistochemistry 1:500, Immunocytochemistry/ Immunofluorescence 1:100 - 1:400, Immunoprecipitation 1 - 4 ug/mg lysate, Immunoblotting
Application Notes	Use in IHC reported in scientific literature (PMID: 23785054). Use in Immunoprecipitation reported in scientific literature (PMID 26085104). Use in ICC/IF reported in scientific literature (PMID 23785054). Use in FLOW reported in scientific literature (PMID 28038472). Use in Immunoblotting reported in scientific literature (PMID:34452909).

**Images**

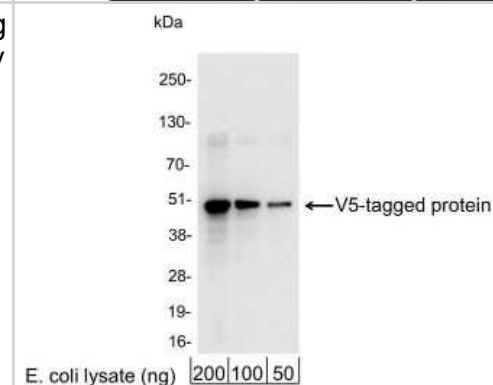
Western Blot: V5 Epitope Tag Antibody [NB600-381] - Effect of PRDX2 and PRDX4 on HIF-1 $\alpha$ -p300 interaction. HeLa cells were transfected with empty vector (EV) or vector encoding PRDX2-V5 or PRDX4-V5, and exposed to 1% O<sub>2</sub> for 24 h. WCL was subject to IP with anti-p300 antibody, followed by immunoblot assays using antibodies against HIF-1 $\alpha$ , V5, and p300. Image collected and cropped by CiteAb from the following publication (<https://www.oncotarget.com/abstract/7142>), licensed under a CC-BY license.



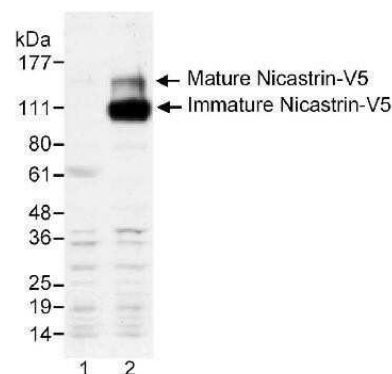
Immunocytochemistry/Immunofluorescence: V5 Epitope Tag Antibody [NB600-381] - ATG2A-V5 overexpression reduces intracellular neutral lipids in THP-1 cells. Scale bars, 10  $\mu$ m. Regulation of phagocyte triglyceride by a STAT-ATG2 pathway controls mycobacterial infection. *Nat Commun* (2017)



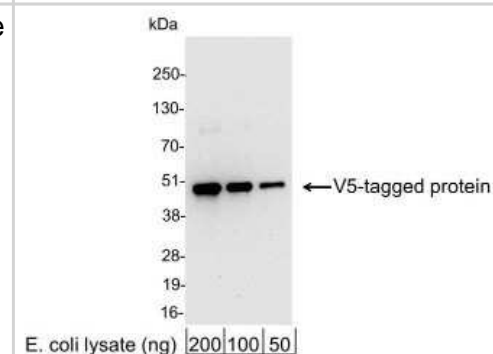
Western Blot: V5 Epitope Tag Antibody [NB600-381] - 200, 100, or 50 ng of *E. coli* whole cell lysate expressing a multi-tag fusion protein. Antibody used at 0.04  $\mu$ g/mL (1:25,000).



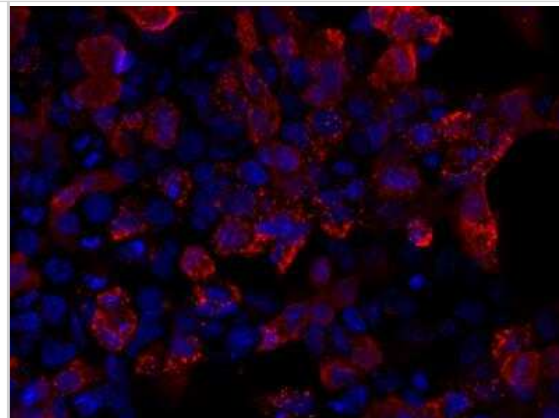
Western Blot: V5 Epitope Tag Antibody [NB600-381] - NP-40 whole cell lysate (10  $\mu$ g) from wild-type HEK293 cells (lane 1) or HEK293 cells expressing V5 tagged Nicastrin (lane 2). NB600-381 was used at 0.2  $\mu$ g/mL (1:5000).



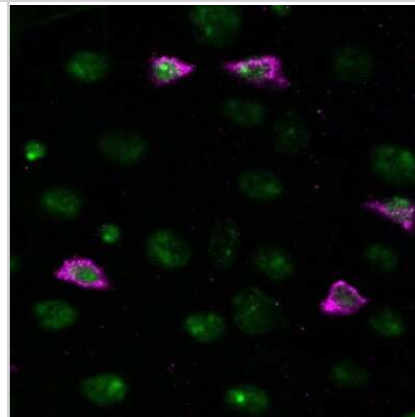
Western Blot: V5 Epitope Tag Antibody [NB600-381] - Analysis using the HRP conjugate of NB600-381. Detection of 200, 100, or 50 ng of *E. coli* whole cell lysate expressing a multi-tag fusion protein. Antibody used at 0.2  $\mu$ g/mL (1:5,000).



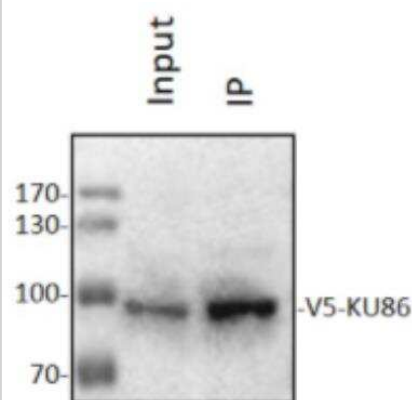
Immunocytochemistry/Immunofluorescence: V5 Epitope Tag Antibody [NB600-381] - HEK293 cells transiently expressing V5-tagged mutant PFN1 stained with V5 Epitope Tag antibody (red). ICC/IF image submitted by a verified customer review.



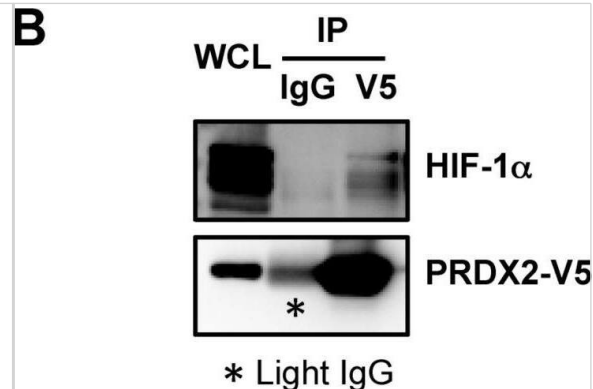
Immunocytochemistry/Immunofluorescence: V5 Epitope Tag Antibody [NB600-381] - Drosophila adult midgut expressing a V5-tagged protein (magenta) using the GAL4/UAS system. Nuclei are shown in green. pAb dilution of 1:500. ICC/IF image submitted by a verified customer review.



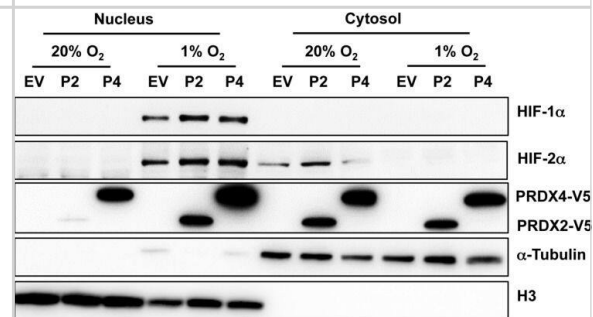
Immunoprecipitation: V5 Epitope Tag Antibody [NB600-381] - HEK293T were transfected with V5-KU86 plasmid, followed by V5 antibody IP then Western blot with v5 antibody (NB600-381). Primary antibody at 1:1000, 4C, overnight. IP/WB image submitted by a verified customer review.



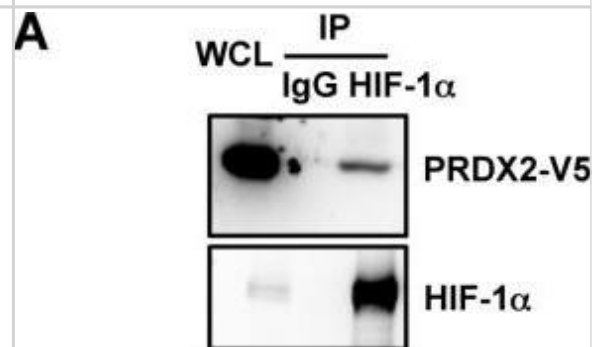
PRDX proteins bind to HIF-1 $\alpha$  & HIF-2 $\alpha$ . HeLa cells were transfected with an expression vector encoding V5-epitope-tagged PRDX2 (PRDX2-V5) & exposed to 1% O<sub>2</sub> for 24 h. Whole cell lysate (WCL) was subject to immunoprecipitation (IP) using anti-HIF-1 $\alpha$  antibody or control IgG, followed by immunoblot assays with antibody against V5 epitope or HIF-1 $\alpha$ . B. HeLa cells were transfected with PRDX2-V5 vector & exposed to 1% O<sub>2</sub> for 24 h. The WCL was subject to IP using anti-V5 antibody or control IgG, followed by immunoblot assays with antibody against V5 or HIF-1 $\alpha$ . Light IgG: immunoglobulin light chain from the secondary antibody. C. HeLa cells were transfected with vector encoding a V5-tagged PRDX family member & exposed to 1% O<sub>2</sub> for 24 h. WCL was subject to IP using anti-HIF-1 $\alpha$  antibody, followed by immunoblot assays with antibody against V5 or HIF-1 $\alpha$ . D. HeLa cells were transfected with empty vector (EV) or vector encoding a V5-tagged PRDX family member & exposed to 1% O<sub>2</sub> for 24 h. WCL was subject to IP using anti-HIF-2 $\alpha$  antibody, followed by immunoblot assays with antibody against V5 or HIF-2 $\alpha$ . 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.



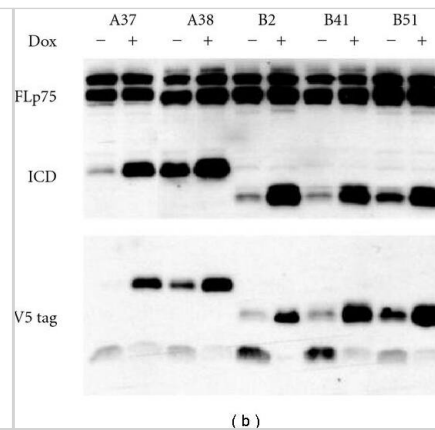
Hypoxia induces the nuclear translocation of PRDX2 & PRDX4. HeLa cells were transfected with vector encoding PRDX2-V5 (P2) or PRDX4-V5 (P4), or empty vector (EV), & exposed to 20% or 1% O<sub>2</sub> for 48 h. Nuclear & cytosolic fractions were isolated & subject to immunoblot assays with antibodies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



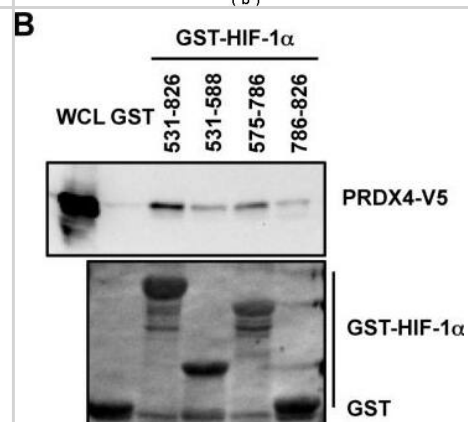
PRDX proteins bind to HIF-1 $\alpha$  & HIF-2 $\alpha$ . HeLa cells were transfected with an expression vector encoding V5-epitope-tagged PRDX2 (PRDX2-V5) & exposed to 1% O<sub>2</sub> for 24 h. Whole cell lysate (WCL) was subject to immunoprecipitation (IP) using anti-HIF-1 $\alpha$  antibody or control IgG, followed by immunoblot assays with antibody against V5 epitope or HIF-1 $\alpha$ . B. HeLa cells were transfected with PRDX2-V5 vector & exposed to 1% O<sub>2</sub> for 24 h. The WCL was subject to IP using anti-V5 antibody or control IgG, followed by immunoblot assays with antibody against V5 or HIF-1 $\alpha$ . Light IgG: immunoglobulin light chain from the secondary antibody. C. HeLa cells were transfected with vector encoding a V5-tagged PRDX family member & exposed to 1% O<sub>2</sub> for 24 h. WCL was subject to IP using anti-HIF-1 $\alpha$  antibody, followed by immunoblot assays with antibody against V5 or HIF-1 $\alpha$ . D. HeLa cells were transfected with empty vector (EV) or vector encoding a V5-tagged PRDX family member & exposed to 1% O<sub>2</sub> for 24 h. WCL was subject to IP using anti-HIF-2 $\alpha$  antibody, followed by immunoblot assays with antibody against V5 or HIF-2 $\alpha$ . 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: V5 Epitope Tag Antibody - BSA Free [NB600-381] - (a) Light & fluorescent micrographs of stable HN33.11 cells expressing (A)-GFP or (B)-GFP, respectively. Results from two stable clones of each transfection pool are shown. Cells are treated with vehicle (Dox-) or 1 µg/mL Dox (Dox+). (b) Western blot of homogenates of stable clones showing endogenous production of full-length p75NTR (FLp75), Dox-induced, but "leaky" production of (A) & (B) & of the V5 tag. Control values for each clone do not differ significantly between GFP(-) & GFP(+) cells (Student's t-test). \*\*\*P < 0.001 relative to GFP(-) cells. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/21904642>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: V5 Epitope Tag Antibody - BSA Free [NB600-381] - Mapping the PRDX2 & PRDX4 binding domains of HIF-1α. & 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.



## Publications

Kniert J, Terino D, Eaton H et al. Spatiotemporal coordination of reovirus peripheral core replication to perinuclear whole virus assembly. *PLoS pathogens* 2025-09-05 [PMID: 40892861]

Verweij MC, Hansen SG, Iyer R et al. Modulation of MHC-E transport by viral decoy ligands is required for RhCMV/SIV vaccine efficacy *Science* 2021-04-30 [PMID: 33766941]

DM Baron, AR Fenton, S Saez-Atien, A Giampetruz, A Sreeram, Shankarach, PJ Keagle, VR Doocy, NJ Smith, EW Danielson, M Andresano, MC McCormack, J Garcia, V Bercier, L Van Den Bo, JR Brent, C Fallini, BJ Traynor, ELF Holzbaur, JE Landers ALS-associated KIF5A mutations abolish autoinhibition resulting in a toxic gain of function *Cell Reports*, 2022-04-05;39(1):110598. 2022-04-05 [PMID: 35385738]

Worboys JD, Vowell KN, Hare RK et al. TIGIT can inhibit T cell activation via ligation-induced nanoclusters, independent of CD226 co-stimulation *Nature Communications* 2023-08-18 [PMID: 37596248]

Ivanusic D, Maier J, Icli S, Falcone V et Al. tANCHOR-cell-based assay for monitoring of SARS-CoV-2 neutralizing antibodies rapidly adaptive to various receptor-binding domains *iScience* 2024-02-21 [PMID: 38380248]

Wei P, Xue W, Zhao Y et Al. CRISPR-based modular assembly of a UAS-cDNA/ORF plasmid library for more than 5500 *Drosophila* genes conserved in humans *Genome Res* 2020-01-01 [PMID: 31722958]

Hubert Bernauer, Anja Schlör, Josef Maier, Norbert Bannert, Katja Hanack, Daniel Ivanusic tANCHOR fast and cost-effective cell-based immunization approach with focus on the receptor-binding domain of SARS-CoV-2 *Biology Methods & Protocols* 2023-01-01 [PMID: 38090673]

Deborah Grifagni, José Malanho Silva, Leonardo Querci, Michel Lepoivre, Cindy Vallières, Ricardo O. Louro, Lucia Banci, Mario Piccioli, Marie-Pierre Golinelli-Cohen, Francesca Cantini Biochemical and cellular characterization of the C1SD3 protein: Molecular bases of cluster release and destabilizing effects of nitric oxide *The Journal of Biological Chemistry* 2024-02-12 [PMID: 38354784]

Yu-Chien Hung, Kuan-Lin Huang, Po-Lin Chen, Jeng-Lin Li, Serena Huei-An Lu, Jui-Chih Chang, Han-Yi Lin, Wen-Chun Lo, Shu-Yi Huang, Tai-Ting Lee, Tai-Yi Lin, Yuzuru Imai, Nobutaka Hattori, Chin-San Liu, Su-Yi Tsai, Chun-Hong Chen, Chin-Hsien Lin, Chih-Chiang Chan UQCRC1 engages cytochrome c for neuronal apoptotic cell death. *Cell reports* 2022-02-15 [PMID: 34551295]

Lyu Y, Yang Y, Talwar V et al Hypoxia-inducible factor 1 recruits FACT and RNF20/40 to mediate histone ubiquitination and transcriptional activation of target genes *Cell Rep* 2024-03-22 [PMID: 38517892] (IP, Human)

DiPeso L New Tools to Study the Consequences of Micronucleation and Micronucleus Rupture Thesis 2023-01-01 (WB)

Ravindran E, Arashiki N, Becker LL et al. Monoallelic CRMP1 gene variants cause neurodevelopmental disorder *eLife* 2022-12-13 [PMID: 36511780]

More publications at <http://www.novusbio.com/NB600-381>





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NB600-381**

---

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**

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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NB600-381](http://www.novusbio.com/reviews/submit/NB600-381)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

