

# Product Datasheet

## Protein Disulfide Isomerase/P4HB Antibody - Azide and BSA Free NB100-1921

Unit Size: 0.1 ml

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

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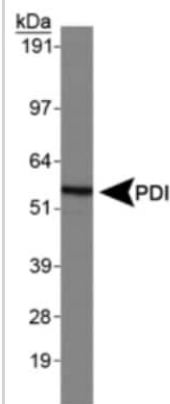
**NB100-1921**

Protein Disulfide Isomerase/P4HB Antibody - Azide and BSA Free

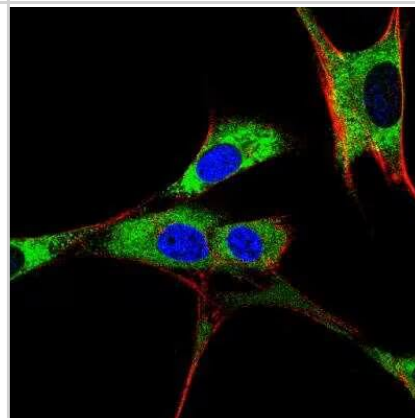
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG
<b>Purity</b>	Unpurified
<b>Buffer</b>	Whole antisera
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit Protein Disulfide Isomerase/P4HB Antibody - Azide and BSA Free (NB100-1921) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-Protein Disulfide Isomerase/P4HB Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	5034
<b>Gene Symbol</b>	P4HB
<b>Species</b>	Human, Mouse, Rat, Bovine, Primate
<b>Marker</b>	Endoplasmic Reticulum Marker
<b>Immunogen</b>	Purified full length P4hb isolated from rat liver.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:10000-1:20000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:5000-1:20000, Immunoprecipitation 1-3 ug, Immunohistochemistry-Paraffin 1:100-1:500, Immunohistochemistry-Frozen 1:100-1:1000
<b>Application Notes</b>	This P4hb antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry frozen and paraffin embedded sections, Immunoprecipitation and Western Blot.

## Images

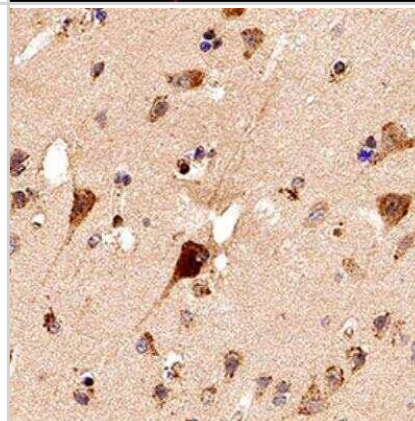
Normal human brain.



ICC/IF Confocal analysis of 3T3 cells using P4HB antibody (NB100-1921, 1:5). An Alexa Fluor 488-conjugated Goat to rabbit IgG was used as secondary antibody (green). Actin filaments were labeled with Alexa Fluor 568 phalloidin (red). DAPI was used to stain the cell nuclei (blue).



IHC analysis of a formalin fixed paraffin-embedded (FFPE) human brain using 1:250 conc. of P4HB antibody on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Whole slide scanning and capturing of representative images was performed using Aperio AT2 (Leica Biosystems). Cytoplasmic staining of P4HB in neurons was observed. Staining was performed by Histowiz.



P4HB staining in Hela cells detected with a Dylight 488 labeled secondary antibody (Green) with Hoechst 33258 nuclear counterstain (Blue).



**Publications**

Oleinik N, Kim J, Roth BM et al. Mitochondrial protein import is regulated by p17/PERMIT to mediate lipid metabolism and cellular stress *Sci Adv* 2019-09-01 [PMID: 31535025] (WB, Human)

Gamberucci A, Marcolongo P, Nemeth CE et al. GLUT10-Lacking in Arterial Tortuosity Syndrome-Is Localized to the Endoplasmic Reticulum of Human Fibroblasts *Int J Mol Sci* 2017-08-22 [PMID: 28829359] (ICC/IF, Human)

Omachi K, Kamura M, Teramoto K et al. A Split-Luciferase-Based Trimer Formation Assay as a High-throughput Screening Platform for Therapeutics in Alport Syndrome. *Cell Chem Biol.* 2018-02-21 [PMID: 29526710] (WB)

Jun HS, Lee YM, Song K et al. G-CSF improves murine G6PC3-deficient neutrophil function by modulating apoptosis and energy homeostasis *Blood* 2011-04-07 [PMID: 21292774]

Azad AK, Torrelles JB, Schlesinger LS. Mutation in the DC-SIGN cytoplasmic triacidic cluster motif markedly attenuates receptor activity for phagocytosis and endocytosis of mannose-containing ligands by human myeloid cells. *J Leukoc Biol*;84(6):1594-603. 2008-12-01 [PMID: 18772280] (ICC/IF, Human)

Safran, M et al. Thyroid hormone-dependent redistribution of the 55-kilodalton monomer of protein disulfide isomerase in cultured glial cells. *Endocrinology*;131(5):2413-8. 1992-11-01 [PMID: 1425439]





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### **Products Related to NB100-1921**

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NB820-60576	Human Brain Frontal Lobe Membrane Tissue Lysate (Adult Membrane Normal)
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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