

Product Datasheet

Protein Disulfide Isomerase/P4HB Antibody - Azide and BSA Free H0005034-B01P

Unit Size: 0.05 mg

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

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H00005034-B01P

Protein Disulfide Isomerase/P4HB Antibody - Azide and BSA Free

Product Information	
Unit Size	0.05 mg
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	No Preservative
Isotype	IgG
Purity	Protein A purified
Buffer	PBS (pH 7.4)

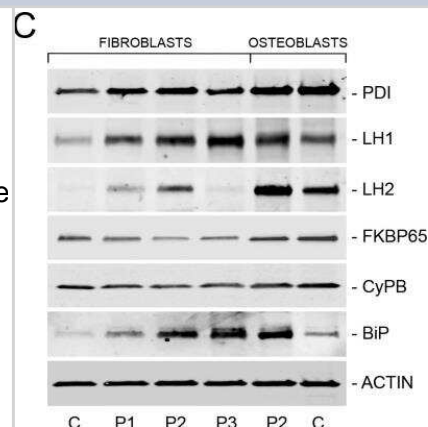
Product Description	
Description	Quality control test: Antibody reactive against mammalian transfected lysate.
Host	Mouse
Gene ID	5034
Gene Symbol	P4HB
Species	Human
Marker	Fibroblast Marker
Immunogen	Protein Disulfide Isomerase/P4HB (NP_000909.2, 1 a.a. - 508 a.a.) full-length human protein. MLRRALLCLAVAALVRADAPEEEDHVLVLRKSNFAEALAAHKYLLVEFYAPWC GHCKALAPEYAKAAGKLKAEGSEIRLAKVDATEESDLAQQYGVRGYPTIKFFRN GDTASPKEYTAGREADDIVNWLKKRTGPAATTLPDGAAAESLVESSEVAVIGFF KDVESDSAQQLQAAEAIDDIPFGITSNSDVFSKYQLDKDGVVLFKKFDEGRNN FEGEVTKENLLDFIKHNQLPLVIEFTEQTAPKIFGGEIKTHILLFLPKSVSDYDGKL SNFKTAAESFKGKILFIFIDSDHTDNQRILEFFGLKKEECPAVRLITLEEEMTKYK PESEELTAERITEFCHRFLGKIKPHLMSQELPEDWDKQPVKVVLVGKNFEDVAF DEKKNVFVEFYAPWCGHCKQLAPIWDKLGETYKDHENIVIAKMDSTANEVEAV KVHSFPTLKFFPASADRTVIDYNGERTLDGFKKFLESGGQDGAGDDDDLEDLE EAEEPDMEEEDDDQKAVKDEL
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot, Immunocytochemistry/ Immunofluorescence
Application Notes	Antibody reactivity against Recombinant Protein with GST tag on ELISA and WB and also on transfected lysate in WB. GST tag alone is used as a negative control. It is also useful for IF.

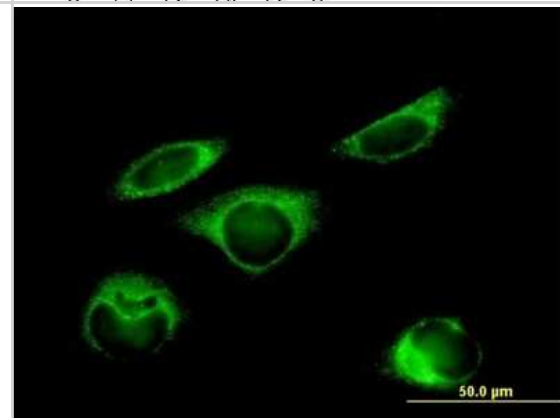


Images

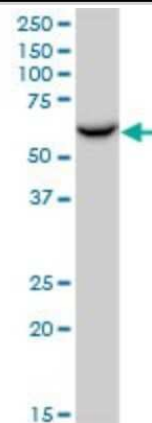
Western Blot: Protein Disulfide Isomerase/P4HB Antibody [H00005034-B01P] - (C) Immunoblots for quantitation of steady-state protein levels of collagen modifying enzymes and chaperones in proband and control cells. Proband fibroblasts show increases in PDI, LH1, LH2 and BiP protein levels. CyPB and FKBP65, both collagen-interacting isomerases, are consistently decreased in proband fibroblasts and osteoblasts. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27441836>) licensed under a CC-BY license.



Immunocytochemistry/Immunofluorescence: Protein Disulfide Isomerase/P4HB Antibody [H00005034-B01P] - Analysis of purified antibody to P4HB on HeLa cell. (antibody concentration 10 ug/ml)



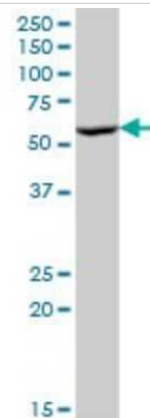
Western Blot: Protein Disulfide Isomerase/P4HB Antibody [H00005034-B01P] - Analysis of P4HB expression in HeLa.



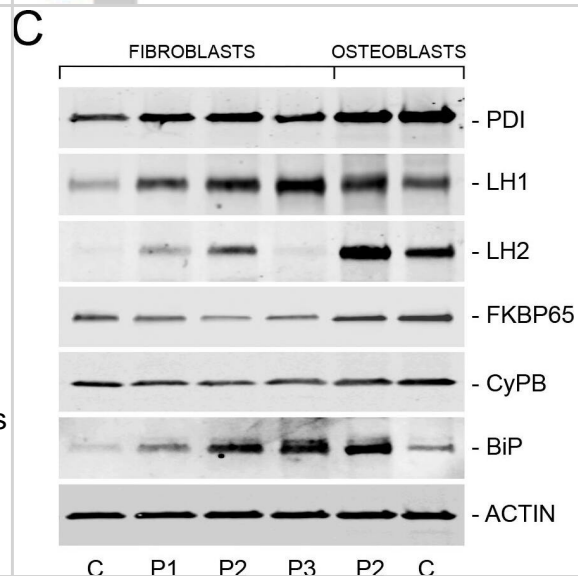
Western Blot: Protein Disulfide Isomerase/P4HB Antibody [H00005034-B01P] - Analysis of P4HB expression in transfected 293T cell line by P4HB polyclonal antibody. Lane 1: P4HB transfected lysate(55.88 KDa). Lane 2: Non-transfected lysate.



Western Blot: Protein Disulfide Isomerase/P4HB Antibody [H00005034-B01P] - Analysis of P4HB expression in human liver.



Western Blot: Protein Disulfide Isomerase/P4HB Antibody [H00005034-B01P] - Absence of TRIC-B alters expression of collagen-interacting proteins. (A) Quantitative RT-PCR of fibroblast transcripts encoding collagen, modifying enzymes & chaperones. Proband cells (P1, P2, & P3) demonstrate decreased expression of COL1A1 & FKBP10 (FKBP65), & increased expression of PLOD1 (LH1) & HSPA5 (BiP/GRP78) versus control fibroblasts (C). (B) Decreased expression of PLOD2 (LH2), FKBP10 (FKBP65) & PPIB (CyPB) in P2 osteoblasts versus control osteoblasts (C). (C) Immunoblots for quantitation of steady-state protein levels of collagen modifying enzymes & chaperones in proband & control cells. Proband fibroblasts show increases in PDI, LH1, LH2 & BiP protein levels. CyPB & FKBP65, both collagen-interacting isomerases, are consistently decreased in proband fibroblasts & osteoblasts. *, $p < 0.05$; **, $p < 0.01$; ***, $p < 0.001$. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pgen.1006156>), licensed under a CC0-1.0 license. Not internally tested by Novus Biologicals.



Publications

Cabral WA, Ishikawa M, Garten M et al. Absence of the ER Cation Channel TMEM38B/TRIC-B Disrupts Intracellular Calcium Homeostasis and Dysregulates Collagen Synthesis in Recessive Osteogenesis Imperfecta. PLoS Genet 2016-07-01 [PMID: 27441836] (WB)

Lindner D, Zietsch C, Becher PM et al. Differential expression of matrix metalloproteases in human fibroblasts with different origins. Biochem Res Int. 2012-01-01 [PMID: 22500233] (ICC/IF, Human)



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Products Related to H00005034-B01P

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97019-5mg	Mouse IgG Isotype Control
NBP2-35195-100ug	Recombinant Human Protein Disulfide Isomerase/P4HB Protein

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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