



[Go to Product page](#)

Datasheet for ABIN2783245
anti-P4HB antibody (N-Term)

6 Images

1 Publication

Overview

Quantity:	100 µL
Target:	P4HB
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Rabbit, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This P4HB antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human P4HB
Sequence:	TIKFFRNGDT ASPKEYTAGR EADDIVNWLK KRTGPAATTL PDGAAAESLV
Predicted Reactivity:	Cow: 100%, Dog: 86%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against P4HB. It was validated on Western Blot and immunohistochemistry.
Purification:	Affinity Purified

Target Details

Target:	P4HB
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Target Details

Alternative Name: [P4HB \(P4HB Products\)](#)

Background: P4HB is the beta subunit of prolyl 4-hydroxylase, a highly abundant multifunctional enzyme that belongs to the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits, this enzyme is involved in hydroxylation of prolyl residues in procollagen. This enzyme is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds. Other known functions include its ability to act as a chaperone that inhibits aggregation of misfolded proteins in a concentration-dependent manner, its ability to bind thyroid hormone, its role in both the influx and efflux of S-nitrosothiol-bound nitric oxide, and its function as a subunit of the microsomal triglyceride transfer protein complex. This gene encodes the beta subunit of prolyl 4-hydroxylase, a highly abundant multifunctional enzyme that belongs to the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits, this enzyme is involved in hydroxylation of prolyl residues in procollagen. This enzyme is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds. Other known functions include its ability to act as a chaperone that inhibits aggregation of misfolded proteins in a concentration-dependent manner, its ability to bind thyroid hormone, its role in both the influx and efflux of S-nitrosothiol-bound nitric oxide, and its function as a subunit of the microsomal triglyceride transfer protein complex. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Alias Symbols: DSI, ERBA2L, GIT, PDI, PDIA1, PHDB, PO4DB, PO4HB, PROHB, P4Hbeta

Protein Interaction Partner: P4HB, UBC, AGO2, MDM2, SUZ12, RNF2, EZH2, BMI1, rev, ACAA2, PLIN3, UBA2, USP5, TPD52L2, PSMD9, PFDN2, CLNS1A, TCEAL4, P3H1, UBQLN2, PABPC1, CALU, PARK2, HNRNPD, EGFR, UBD, BAG3, CXCR4, env, UBL4A, CSNK2A2, ATF2, GRDX, TMED9, GANAB, CCT4, CCT7, PDIA6, PDIA

Protein Size: 508

Molecular Weight: 55 kDa

Gene ID: 5034

NCBI Accession: [NM_000918](#), [NP_000909](#)

UniProt: [P07237](#)

Pathways: [Maintenance of Protein Location](#), [Cell Redox Homeostasis](#), [Lipid Metabolism](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 508 AA

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

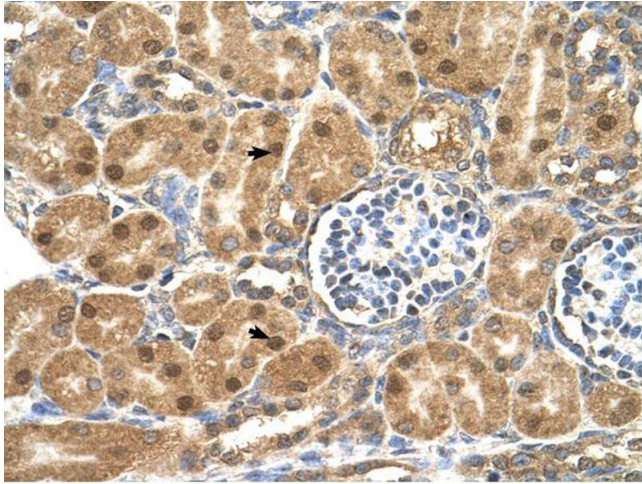
Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in: Mehrle, Rosenfelder, Schupp, del Val, Arlt, Hahne, Bechtel, Simpson, Hofmann, Hide, Glatting, Huber, Pepperkok, Poustka, Wiemann: "The LIFEdb database in 2006." in: **Nucleic acids research**, Vol. 34, Issue Database issue, pp. D415-8, (2005) ([PubMed](#)).



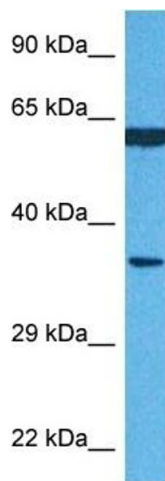
Immunohistochemistry

Image 1.



Western Blotting

Image 2. Host: Rabbit Target Name: P4HB Sample Tissue: Human HepG2 Whole Cell Antibody Dilution: 1ug/ml



Western Blotting

Image 3. Host: Rabbit Target Name: P4HB Sample Tissue: Human MCF7 Whole Cell Antibody Dilution: 1ug/ml

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN2783245.