

## Product datasheet for **TA346539**

### P4HB Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-P4HB antibody: synthetic peptide directed towards the C terminal of human P4HB. Synthetic peptide located within the following region: DRTVIDYNGERTLDGFKKFLESGGQDGAGDDDDLEDLEEAEEPDMEEEDDD
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	55 kDa
Gene Name:	prolyl 4-hydroxylase subunit beta
Database Link:	<a href="#">NP_000909</a> <a href="#">Entrez Gene 18453 Mouse</a> <a href="#">Entrez Gene 5034 Human</a> <a href="#">P07237</a>



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**Background:**

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. [provided by RefSeq, Jul 2008]

**Synonyms:**

DSI; ERBA2L; GIT; P4Hbeta; PDI; PDIA1; PHDB; PO4DB; PO4HB; PROHB

**Note:**

Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Bovine: 100%; Rabbit: 100%; Guinea pig: 93%

**Protein Families:**

Druggable Genome

**Product images:**

WB Suggested Anti-P4HB Antibody Titration: 0.2-1 ug/ml; Positive Control: HepG2 cell lysate. P4HB is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells