

## Product datasheet for **TA308403**

### P4HB Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	ICC/IF:1:100-1:1000; IHC:1:100-1:1000; WB:1:500-1:10000
Reactivity:	Human, Mouse (Predicted: Chimpanzee)
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant fragment corresponding to a region within amino acids 23 and 227 of PDI (Uniprot ID#P07237)
Formulation:	0.1M Tris, 0.1M Glycine, 10% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Concentration:	lot specific
Purification:	Purified by antigen-affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	57 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]

**Synonyms:**

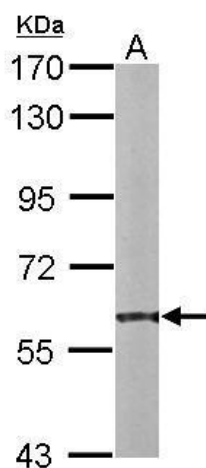
DSI; ERBA2L; GIT; P4Hbeta; PDI; PDIA1; PHDB; PO4DB; PO4HB; PROHB

**Note:**

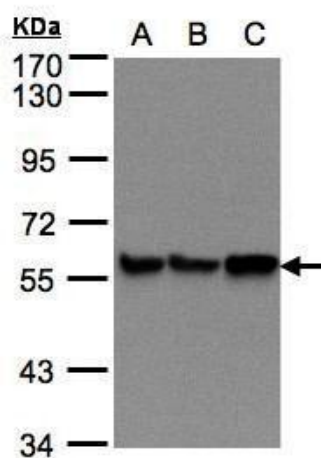
Seq homology of immunogen across species: Chimpanzee (100%)

**Protein Families:**

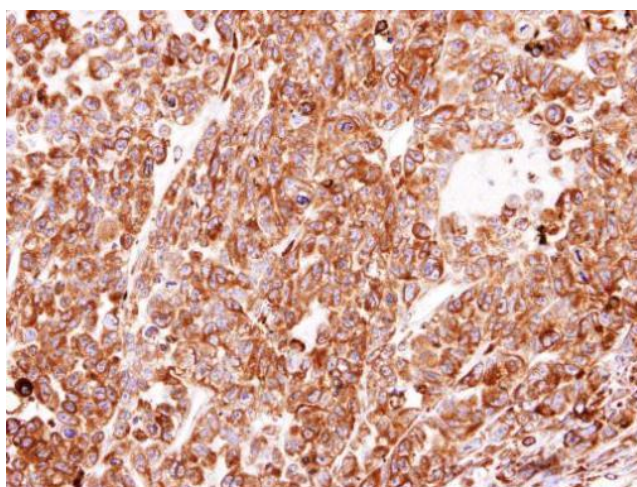
Druggable Genome

**Product images:**

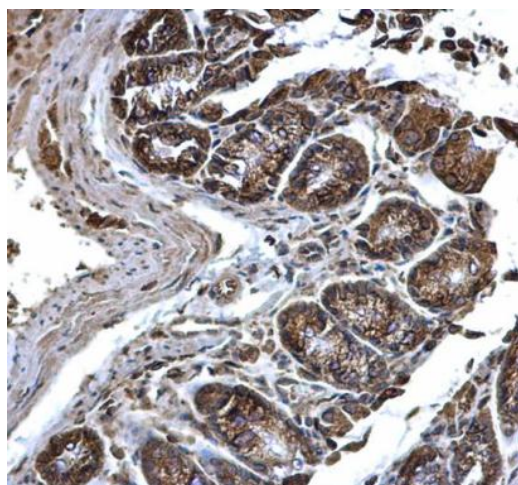
Sample (20 ug of whole cell lysate). A: mouse liver. 7.5% SDS PAGE. TA308403 diluted at 1:10000.



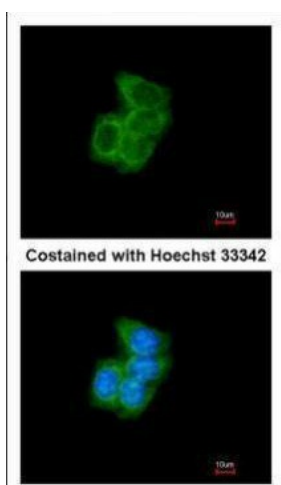
Sample (30 ug of whole cell lysate). A:293T. B:A431. C:H1299. 7.5% SDS PAGE. TA308403 diluted at 1:500



Immunohistochemical analysis of paraffin-embedded H520 xenograft, using PDI (TA308403) antibody at 1:100 dilution.



PDI antibody [N1N3] detects PDI protein at cytosol and membrane on mouse colon by immunohistochemical analysis. Sample: Paraffin-embedded mouse colon. PDI antibody [N1N3] (TA308403) dilution: 1:500.



Immunofluorescence analysis of methanol-fixed A431, using PDI (TA308403) antibody at 1:200 dilution.