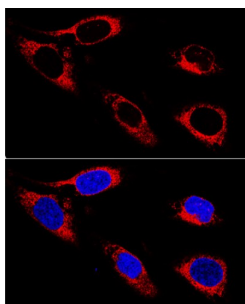
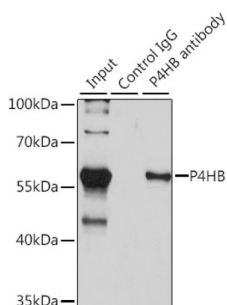


## Protein Disulfide-Isomerase / PDI (P4HB) Antibody

Catalogue No.: abx000827



Confocal immunofluorescence analysis of U-2OS cells using P4HB Antibody at dilution of 1/400. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 200 µg extracts of SW620 cells using 3 µg P4HB antibody. Western blot was performed from the immunoprecipitate using P4HB antibody at a dilution of 1/500.

P4HB Antibody is a Rabbit Polyclonal antibody against P4HB. This gene encodes the beta subunit of prolyl 4-hydroxylase, a highly abundant multifunctional enzyme that belongs to the Protein Disulfide-Isomerase / PDI 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.

**Target:** Protein Disulfide-Isomerase / PDI (P4HB)

**Clonality:** Polyclonal

**Reactivity:** Human, Mouse, Rat

**Tested Applications:** ELISA, WB, IF/ICC, IP

**Host:** Rabbit

**Recommended dilutions:** ELISA: 1 µg/ml, WB: 1/500 - 1/2000, IF/ICC: 1/20 - 1/100, IP: 0.5 µg - 4 µg antibody per 200 µg - 400 µg extracts of whole cells. Optimal dilutions/concentrations should be determined by the end user.

**Conjugation:** Unconjugated

# Datasheet

Version: 8.0.0  
Revision date: 21 May 2025



<b>Immunogen:</b>	Recombinant fusion protein containing a sequence corresponding to amino acids 329-508 of human P4HB.
<b>Isotype:</b>	IgG
<b>Form:</b>	Liquid
<b>Purification:</b>	Purified by affinity chromatography.
<b>Storage:</b>	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
<b>UniProt Primary AC:</b>	P07237 ( <a href="#">UniProt</a> , <a href="#">ExPASy</a> )
<b>Gene Symbol:</b>	P4HB
<b>GeneID:</b>	<a href="#">5034</a>
<b>OMIM:</b>	<a href="#">112240</a>
<b>NCBI Accession:</b>	NP_000909.2
<b>HGNC:</b>	8548
<b>KEGG:</b>	hsa:5034
<b>Ensembl:</b>	ENSG00000185624
<b>String:</b>	<a href="#">9606.ENSP00000327801</a>
<b>Molecular Weight:</b>	Calculated MW: 57 kDa Observed MW: 57 kDa
<b>Buffer:</b>	PBS, pH 7.3, containing 0.02% sodium azide, 50% glycerol.
<b>Concentration:</b>	> 0.2 mg/ml
<b>Note:</b>	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.