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P4HB Rabbit pAb

Catalog No.: A0692 **6 Publications**

Basic Information

Observed MW
57kDa

Calculated MW
57kDa

Category
Primary antibody

Applications
WB,IF/ICC,IP,ELISA

Cross-Reactivity
Human, Mouse, Rat

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 preprocollagen. 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.

Recommended Dilutions

WB	1:500 - 1:2000
IF/ICC	1:20 - 1:100
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Contact

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Immunogen Information

Gene ID
5034

Swiss Prot
P07237

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
DSI; GIT; PDI; PHDB; PDIA1; PO4DB; PO4HB; PROHB; CLCRP1; ERBA2L; P4Hbeta; P4HB

Product Information

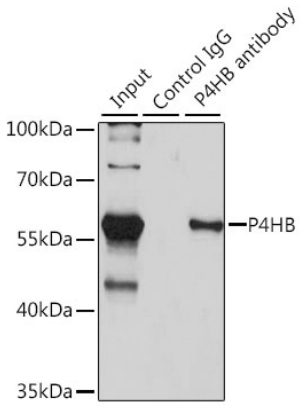
Source
Rabbit

Isotype
IgG

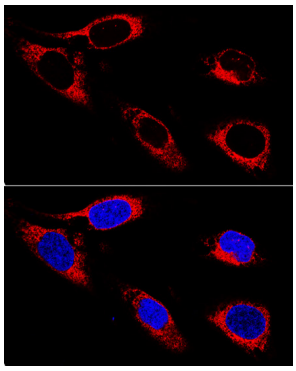
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Immunoprecipitation analysis of 200 µg extracts of SW620 cells using 3 µg P4HB antibody (A0692). Western blot was performed from the immunoprecipitate using P4HB antibody (A0692) at a dilution of 1:500.



Confocal immunofluorescence analysis of U-2OS cells using P4HB Rabbit pAb (A0692) at dilution of 1:400. Blue: DAPI for nuclear staining.

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