

# P4HB Rabbit pAb

**Catalog No.: A0692SP**

## Basic Information

**Observed MW**

57 kDa

**Calculated MW**

57 kDa

**Category**

Primary antibody

**Applications**

WB, IP, IF/ICC, IHC-P, 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 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.

## Recommended Dilutions

**WB** 1:2000 - 1:15000**IP** 0.5 µg - 4 µg antibody for  
200 µg - 400 µg extracts of  
whole cells**IF/ICC** 1:200 - 1:400**IHC-P** 1:10000 - 1:40000**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on your  
specific assay requirements.  
For high-ratio antibody  
dilutions ( $\geq 1:10000$ ) a  
sequential dilution method  
is strongly recommended to  
ensure measurement  
accuracy.

## 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

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

Affinity purification

**Storage**

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.

May contain 0.05% BSA as specified on the Certificate of Analysis.

Contact

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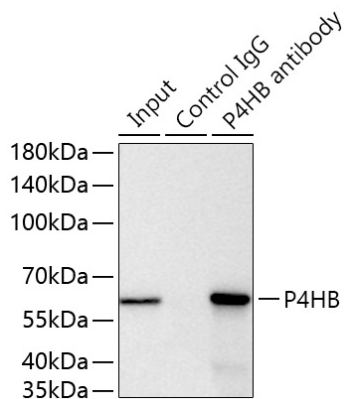
☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

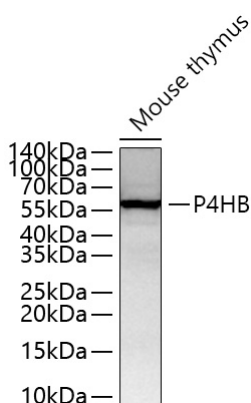
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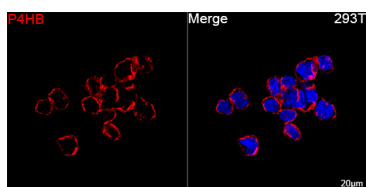
## Validation Data



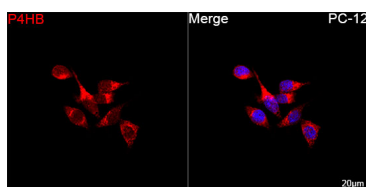
Immunoprecipitation of P4HB from 300 µg extracts of 293T cells was performed using 0.5 µg of P4HB Rabbit pAb (A0692SP). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using P4HB Rabbit pAb (A0692SP) at a dilution of 1:10000.



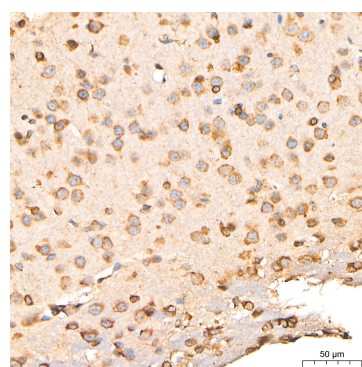
Western blot analysis of lysates from Mouse thymus using P4HB Rabbit pAb (A0692SP) at 1:11000 dilution incubated overnight at 4°C.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 30 s.



Confocal imaging of 293T cells using P4HB Rabbit pAb (A0692SP, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



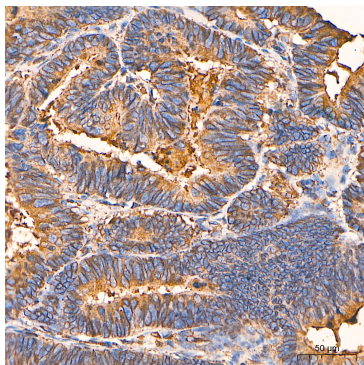
Confocal imaging of PC-12 cells using P4HB Rabbit pAb (A0692SP, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



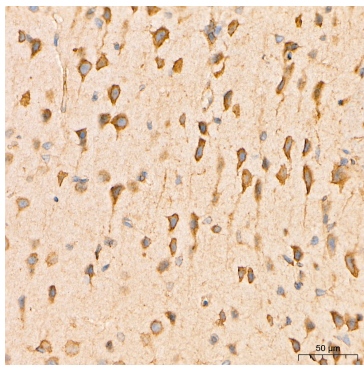
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using P4HB Rabbit pAb (A0692SP) at a dilution of 1:13000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

## Validation Data

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Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using P4HB Rabbit pAb (A0692SP) at a dilution of 1:13000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using P4HB Rabbit pAb (A0692SP) at a dilution of 1:13000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.