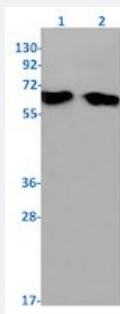


RecomAb™

# P4HB recombinant monoclonal antibody, clone R07-3H3

Catalog # RAB02033      Size 100 uL

## Applications



### Western Blot

Western blot analysis of Lane 1: K562 and Lane 2: C6 lysates with P4HB recombinant monoclonal antibody, clone R07-3H3 (Cat # RAB02033).

## Specification

<b>Product Description</b>	Rabbit recombinant monoclonal antibody raised against human P4HB.
<b>Antibody Species</b>	Rabbit
<b>Immunogen</b>	Original antibody is raised against a synthetic peptide corresponding to human P4HB.
<b>Theoretical MW (kDa)</b>	Calculated MW: 57 kD
<b>Reactivity</b>	Human, Mouse, Rat
<b>Form</b>	Liquid
<b>Purification</b>	Affinity purification
<b>Isotype</b>	IgG
<b>Recommend Usage</b>	Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

**Storage Instruction**

Store at -20 °C.  
Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot

Western blot analysis of Lane 1: K562 and Lane 2: C6 lysates with P4HB recombinant monoclonal antibody, clone R07-3H3 (Cat # RAB02033).

- Immunohistochemistry

- Immunofluorescence

## Gene Info — P4HB

**Entrez GeneID**[5034](#)**Protein Accession#**[P07237](#)**Gene Name**

P4HB

**Gene Alias**

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

**Gene Description**

prolyl 4-hydroxylase, beta polypeptide

**Omim ID**[176790](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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]

**Other Designations**

collagen prolyl 4-hydroxylase beta|glutathione-insulin transhydrogenase|procollagen-proline, 2-oxo glutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide|prolyl 4-hydroxylase, beta subunit|protein disulfide isomerase family A, member 1|protein d

## Disease

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