

P4HB

Reactivity: Human Mouse Rat

Tested applications: WB IHC IF IP RIP

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:20 - 1:100 IP 1:20 - 1:50

RIP 1:20 - 1:50

Calculated MW: 57kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human P4HB

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

j

Synonym:

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

Catalog #: A0692

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 5034

Isotype: IgG

Swiss Prot: P07237

Purity: Affinity purification

For research use only.

Background:

During their synthesis, secretory proteins translocate into the endoplasmic reticulum (ER) where they are post-translationally modified and properly folded. To reach their native conformation, many secretory proteins require the formation of intra- or inter-molecular disulfide bonds (1). This process is called oxidative protein folding. Protein disulfide isomerase (PDI) catalyzes the formation and isomerization of these disulfide bonds (2). Studies on mechanisms of oxidative folding suggest that molecular oxygen oxidizes the ER-protein Ero1, which in turn oxidizes PDI through disulfide exchange (3). This event is then followed by PDI-catalyzed disulfide bond formation in folding proteins (3).

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