

Anti-PDIA1 (PDI) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

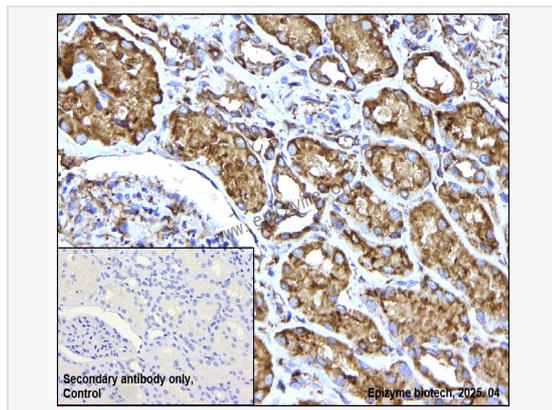
Catalog # R012996

Product Information

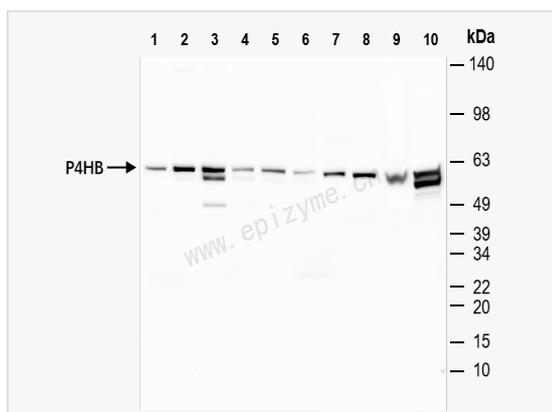
Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	75K43M54
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human P4HB
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-PDIA1 (PDI) Rabbit mAb [75K43M54] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Cellular thyroid hormone binding protein; Cellular thyroid hormone-binding protein; Collagen prolyl 4 hydroxylase beta; Disulphide Isomerase; DSI; EC 5.3.4.1; Endoplasmic reticulum resident protein 59; ER protein 59; ERBA2L; ERp59; GIT; Gltathione insulin transhydrogenase; Glutathione insulin transhydrogenase; P4HB; P4Hbeta; p55; PDI; PDIA1; PDIA1_HUMAN; PDIR; PHDB; PO4DB; PO4HB; Procollagen proline 2 oxoglutarate 4 dioxygenase (proline 4 hydroxylase) beta polypeptide (protein disulfide isomerase associated 1); Procollagen proline 2 oxoglutarate 4 dioxygenase beta subunit; PROHB; Prolyl 4 hydroxylase beta polypeptide; Prolyl 4 hydroxylase beta subunit; Prolyl 4 hydroxylase subunit beta; Prolyl 4-hydroxylase subunit beta; Protein disulfide isomerase associated 1; Protein disulfide isomerase, family A, member 1; Protein disulfide isomerase/oxidoreductase; Protein disulfide-isomerase; Protocollagen hydroxylase; Thbp; Thyroid hormone binding protein p55; Thyroid hormone binding protein p55 cellular; V erb a avian erythroblastic leukemia viral oncogene homolog 2 like.
Calculated MW	Calculated MW: 57 kDa; Observed MW: 57 kDa
Uniprot ID	P07237
Gene ID	5034
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



Immunohistochemistry - Anti-PDIA1 (PDI) Rabbit mAb [75K43M54]
 Sample: Paraformaldehyde-fixed, paraffin embedded human renal carcinoma tissue
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
 Primary antibody: R012996 at 1:200 dilution
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
 DAB was used as the chromogen.
 Counter stained with hematoxylin.
 Positive/negative staining were presented.
 Only the secondary antibody was used as the negative control.



Western Blot - Anti-PDIA1 (PDI) Rabbit mAb [75K43M54]
 All lanes: R012996 at 1:1,000 dilution
 Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
 Lane 2: Huh1 (Human hepatocarcinoma epithelial cell) whole cell lysates
 Lane 3: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
 Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates
 Lane 5: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates
 Lane 6: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates
 Lane 7: Mouse liver whole tissue lysates
 Lane 8: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
 Lane 9: Rat liver whole tissue lysates
 Lane 10: Rat small intestine whole tissue lysates
 Lysates/proteins at 10 µg per lane.
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
 Predicted band size: 57 kDa
 Observed band size: 57 kDa
 Developed using the ECL technique (Cat. No. SQ201).