

Rabbit PDIA1 Polyclonal Antibody | anti-P4HB antibody

PDIA1 Antibody

CATALOG # AAA40682	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot, ELISA
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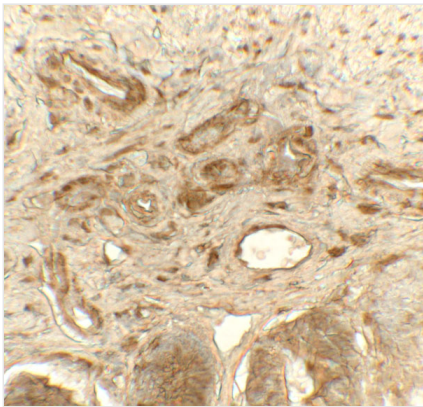
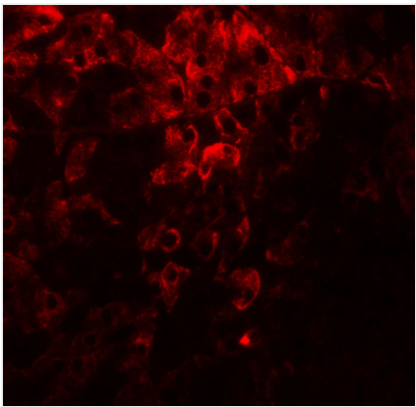
PRODUCT SYNONYMS

PDIA1; Polyclonal Antibody; PDIA1 Antibody; Protein disulfide isomerase family A member 1; DSI; GIT; PDI; PHDB; PO4DB; PO4HB; PROHB; ERBA2L; P4Hbeta; prolyl 4-hydroxylase; beta polypeptid; anti-P4HB antibody

PRODUCT SPECIFICATIONS

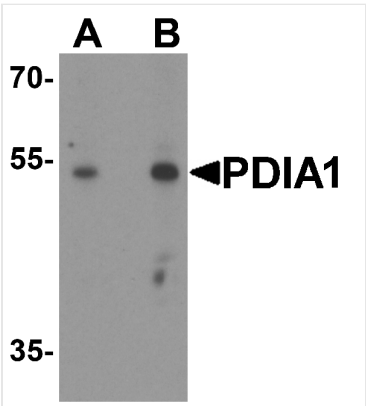
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PDIA1 antibody is human, mouse and rat reactive.
Purity/Purification	PDIA1 antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	508
Applicable Applications for anti-P4HB antibody	WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	PDIA1 antibody was raised against a 17 amino acid peptide near the center of human PDIA1.
Buffer	PDIA1 antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	PDIA1 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year.

IMAGES



IF (Immunofluorescence)
Immunofluorescence of PDIA1 in rat small intestine tissue with PDIA1 antibody at 20 μg/mL.

IHC (Immunohiostchemistry)
Immunohistochemistry of PDIA1 in rat small intestine tissue with PDIA1 antibody at 5 μg/mL.



WB (Western Blot)
Western blot analysis of PDIA1 in rat small intestine tissue lysate with PDIA1 antibody at (A) 1 and (B) 2 μg/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-P4HB antibody	PDIA1 (protein disulfide isomerase family A member 1) is 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 (1,2). PDIA1 is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds (3). 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 (4).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	20070125
NCBI GeneID	5034
NCBI Accession #	NP_000909
NCBI GenBank Nucleotide #	NM_000918.3
UniProt Accession #	P07237; P30037; P32079; Q15205; Q6LDE5; B2RDQ2
Molecular Weight	Predicted: 54 kDa Observed: 54 kDa

NCBI Official Full Name	protein disulfide-isomerase
NCBI Official Synonym Full Names	prolyl 4-hydroxylase, beta polypeptide
NCBI Official Symbol	P4HB
NCBI Official Synonym Symbols	DSI; GIT; PDI; PHDB; PDIA1; PO4DB; PO4HB; PROHB; ERBA2L; P4Hbeta
NCBI Protein Information	protein disulfide-isomerase; p55; procollagen hydroxylase; prolyl 4-hydroxylase subunit beta; collagen prolyl 4-hydroxylase beta; thyroid hormone-binding protein p55; glutathione-insulin transhydrogenase; cellular thyroid hormone-binding protein; protein disulfide isomerase-associated 1; protein disulfide isomerase/oxidoreductase; protein disulfide isomerase family A, member 1; procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide
UniProt Protein Name	Protein disulfide-isomerase
UniProt Gene Name	P4HB
UniProt Synonym Gene Names	ERBA2L; PDI; PDIA1; PO4DB; PDI
UniProt Entry Name	PDIA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pdia1-antibody-western-blot-elisa/40682>