Datasheet for ABIN2855054

anti-P4HB antibody

6 Images

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Overview

Quantity:	100 µL
Target:	P4HB
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This P4HB antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoelectron Microscopy (IEM)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human PDI. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to PDI (prolyl 4-hydroxylase, beta polypeptide) PDI antibody [N1N3]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	P4HB

Target Details

Alternative Name:	prolyl 4-hydroxylase subunit beta (P4HB Products)
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 preprocollagen. 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. Cellular Localization: Endoplasmic reticulum lumen , Melanosome , Cell membrane, Peripheral membrane protein (Potential)
Molecular Weight:	57 kDa
Gene ID:	5034
UniProt:	P07237
Pathways:	Maintenance of Protein Location, Cell RedoxHomeostasis, Lipid Metabolism

Application Details

Application Notes:	WB: 1:500-1:10000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: Mouse liver , 293T , A431 , H1299
Restrictions:	For Research Use only

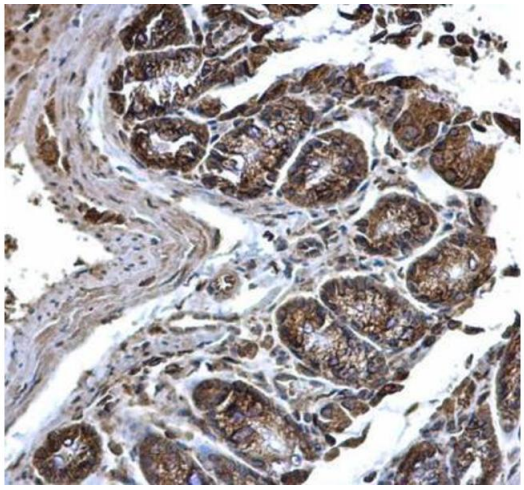
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

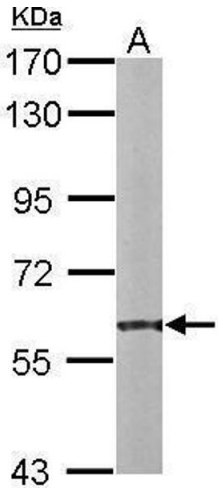
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Images



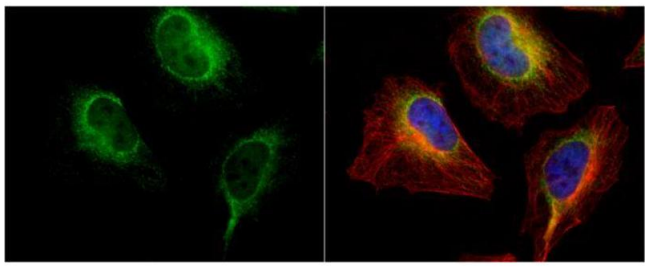
Immunohistochemistry

Image 1. IHC-P Image PDI antibody [N1N3] detects PDI protein at cytosol and membrane on mouse colon by immunohistochemical analysis. Sample: Paraffin-embedded mouse colon. PDI antibody [N1N3] , dilution: 1:500.



Western Blotting

Image 2. WB Image Sample (20 ug of whole cell lysate) A: mouse liver 7.5% SDS PAGE antibody diluted at 1:10000



Immunofluorescence

Image 3. ICC/IF Image PDI antibody [N1N3] detects PDI protein at endoplasmic reticulum by immunofluorescent analysis. Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: PDI protein stained by PDI antibody [N1N3] , diluted at 1:100. Red: phalloidin, a cytoskeleton marker, stained by phalloidin (invitrogen, A12380) diluted at 1:200. Blue: Hoechst 33342 staining.

Images

Please check the product details page for more images. Overall 6 images are available for ABIN2855054.

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