

## Anti-PDIA1 (PDI) Rabbit pAb

Affinity Purified Rabbit Polyclonal Antibody Catalog # P900003

## **Product Information**

Application WB, IHC-P, IF (Cell)/ICC, IF (Tissue-P), ELISA

Reactivity Human

Dilution WB 1:5,000; IHC-P 1:200~1:1,000; IF 1:50~1:100

Host Rabbit
Clonality Polyclonal
Isotype IgG

Label Unconjugated

Immunogen This PDI antibody is generated from rabbits immunized with a BSA conjugated synthetic peptide between 488-502 amino acids

from the C-terminal region of human PDI.

Format Purified polyclonal antibody supplied in PBS with 0.01% (W/V) sodium azide and 50% glycerol, pH 7.3. This antibody is

purified through a protein G column.

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 pAb is for research use only and not for use in diagnostic or therapeutic procedures.

## **Protein Information**

Synonyms P4HB, ERBA2L, PDI, PDIA1, PO4DB

Calculated MW: 57 kDa; Observed MW: 57 kDa

Primary Accession P07237

Other Accession NP\_000909.2

 Gene ID
 5034

 Antigen Region
 488-502

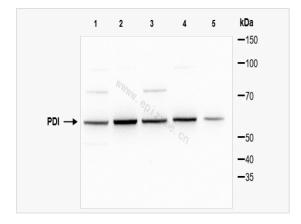
Background This multifunctional protein catalyzes the formation, breakage and rearrangement of disulfide bonds. At the cell surface, seems

to act as a reductase that cleaves disulfide bonds of proteins attached to the cell. May therefore cause structural modifications of exofacial proteins. Inside the cell, seems to form/rearrange disulfide bonds of nascent proteins. At high concentrations, functions as a chaperone that inhibits aggregation of misfolded proteins. At low concentrations, facilitates aggregation (antichaperone activity). May be involved with other chaperones in the structural modification of the TG precursor in hormone biogenesis. Also acts a structural subunit of various enzymes such as probl 4-hydroxylase and microsomal triacylglycerol

transfer protein MTTP.

Cellular Location Endoplasmic reticulum. Endoplasmic reticulum lumen. Melanosome. Cell membrane; Peripheral membrane protein. Note=Highly

abundant. In some cell types, seems to be also secreted or associated with the plasma membrane, where it undergoes constant shedding and replacement from intracellular sources (Probable). Localizes near CD4-enriched regions on lymphoid cell surfaces



Western Blot - Anti-PDIA1 (PDI) Rabbit pAb

All lanes: P900003 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: A431 (Human epidermoid teratoma cell) whole cell lysates Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates

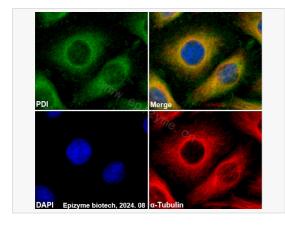
Lysates/proteins at 10 µg per lane.

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).



Immunofluorescence - Anti-PDIA1 (PDI) Rabbit pAb

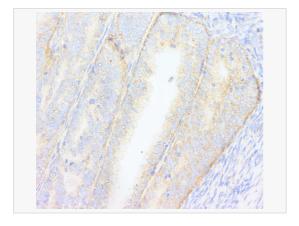
Sample: Hela cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours

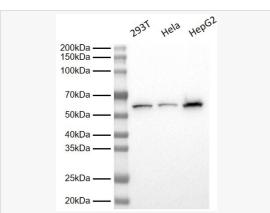
Primary antibodies: P900003 at 1:50 dilution and  $\alpha$ -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:50 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemical analysis of paraffin-embedded uterine tissue using Anti-PDI Rabbit pAb. Antigen repair using EDTA antigen repair solution and blocking with 5% BSA for half 0.5 hour. Samples were incubated with primary antibody (1/1000) overnight at 4°C. A undiluted HRP-labeled anti-rabbit IgG was used as the secondary antibody for 0.5 hour.



All lanes: Anti-PDIA1 (PDI) Rabbit pAb at 1:5,000 dilution

Lane 1: 293T cell Lysates Lane 2: Hela cell Lysates

Lane 3: HepG2 cell LysatesLysates/proteins at 20 µg per lane.

Secondary Goat Anti-Rabbit IgG, (H L), Peroxidase conjugated (LF102) at 1:2,000

dilution. Observed band size: 57 kDaBlocking/Dilution buffer: 1×PBST.