

## PDI Rabbit pAb

CatalogNo: YN5749

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB

#### MW

- 56kD (Calculated)

#### Isotype

- IgG

### Recommended Dilution Ratios

WB 1:500-2000

### Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from human PDI

**Specificity** This antibody detects endogenous levels of PDI at Human, Mouse, Rat

### Target Information

**Gene name** P4HB ERBA2L PDI PDIA1 PO4DB

**Protein Name**

Protein disulfide-isomerase (PDI) (Cellular thyroid hormone-binding protein) (Prolyl 4-hydroxylase subunit beta) (p55)

Organism	Gene ID	UniProt ID
Human	<a href="#">5034;</a>	<a href="#">P07237;</a>
Mouse	<a href="#">18453;</a>	<a href="#">P09103;</a>
Rat	<a href="#">25506;</a>	<a href="#">P04785;</a>

**Cellular Localization**

Endoplasmic reticulum . Endoplasmic reticulum lumen . Melanosome . Cell membrane ; Peripheral membrane protein . 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 (PubMed:11181151). Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:10636893). Colocalizes with MTTP in the endoplasmic reticulum (PubMed:23475612). .

**Function**

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 (anti-chaperone 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 prolyl 4-hydroxylase and microsomal triacylglycerol transfer protein MTTP. Receptor for LGALS9; the interaction retains P4HB at the cell surface of Th2 T helper cells, increasing disulfide reductase activity at the plasma membrane, altering the plasma membrane redox state and enhancing cell migration .

## | Validation Data

## | Contact information

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