PDI (ER Marker) Rabbit Recombinant Oligoclonal Antibody – Purified

Catalog no. 710081

(See product label for lot information)

Clone/PAD: 7HCLC
Isotype: IgG
Gene ID: 64714
Protein Acc. no.: Q13087
Qty: 100 µg
Volume: 200 µl
Concentration: 0.5 mg/mL

Formulation
Phosphate buffered saline (PBS) with 0.09% sodium azide.

Application
For use in Western Blotting and ELISA.

Reactivity
This antibody is specific for human PDI (ER Marker).

Immunogen
Recombinant Protein corresponding to amino acids 378-525 of human PDI (ER Marker).

Sequence Identity
Human

Expected Reactivity
Based on sequence identity and similarity, reactivity to Human is predicted.

Storage
2-8°C for up to 1 month, -20°C for long term storage. Avoid repeated freezing and thawing.

Expiration Date
Expires one year from date of receipt when stored as instructed.

Background
PDI (ER marker) also known as protein disulfide isomerase is an enzyme present in the ER which plays a very important role in protein folding, by facilitating formation of correct disulphide bonds (1,3). Processing and maturation of the secretory proteins in the endoplasmic reticulum are actively done by the family of PDI proteins. This class of proteins show similar homology to the cytoplasmic protein thioredoxin (2). The protein catalyses the thiol/disulphide interchange interactions(3). Also depending upon the type of polypeptide substrate and redox potential, the protein brings about protein disulfide formation, isomerization or reduction (3)

References

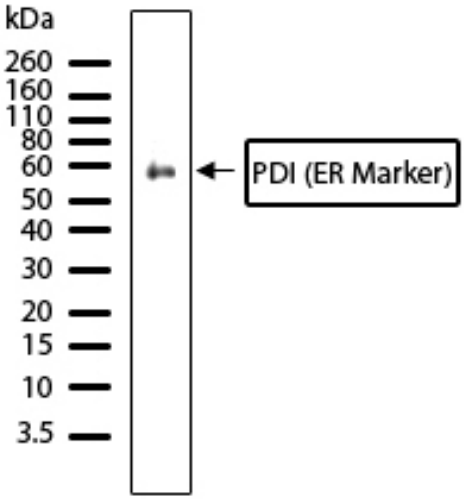
1) Qiongqing Wang and Amy Chang. 1999. Eps1, a novel PDI-related protein involved in ER quality control in yeast. The EMBO Journal. No.21 pp. 5972-5982.

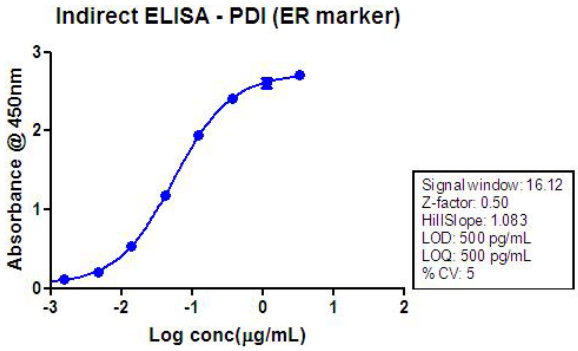
2) Ferrari DM, Söling HD.1999. The protein disulphide-isomerase family: unravelling a string of folds. Biochemical Journal. 1;339 (Pt 1):1-10.

3) Mary-Jane Gething and Joseph Sambrook. 1992. Protein folding in the cell. Nature. Vol 335 pp33-45.

Applications:

	Species	Test Material	Concentration
Western Blotting	Human	HEK	1 - 2 µg/ml
Indirect ELISA	Human	Recombinant Protein	$5x10^{-4}$ - 10 µg/ml





Western Blot analysis of PDI (ER Marker) Rabbit Recombinant Oligoclonal Antibody (Cat. No.710081).
Whole cell extract; 30µg per lane from HEK was loaded on SDS-PAGE followed by transfer on to nitrocellulose. The blot was blocked followed by incubation with PDI (ER Marker) Rabbit Recombinant Oligoclonal Antibody at 1µg/mL for 2 hours. Goat Anti Rabbit - HRP conjugated, was used at 1:5000 dilution as secondary antibody and developed by chemiluminescence (ECL) method. A band of ~57kDa was detected.

Indirect ELISA of PDI (ER marker) Rabbit Recombinant Oligoclonal Antibody (Cat. No.710081).
Indirect ELISA was done using PDI (ER Marker) Rabbit Recombinant Oligoclonal Antibody to detect PDI (ER Marker) the recombinant protein (100 ng/well), using TMB (Cat. No. SB01) as substrate.

Explanation of symbols

Symbol	Description	Symbol	Description
REF	Catalogue Number	LOT	Batch code
RUO	Research Use Only	IVD	*In vitro* diagnostic medical device
	Use by		Temperature limitation
	Manufacturer	EC REP	European Community authorised representative
[-]	Without, does not contain	[+]	With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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