

PDI (ER Marker) ABfinity™ Recombinant Rabbit Monoclonal Antibody - Purified



Catalog no. 700782

(See product label for lot information)

Clone/PAD: 7H25L2
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

Peptide

Sequence Identity

Human

Expected Reactivity

Based on sequence identity and similarity, reactivity to Human and is expected.

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.

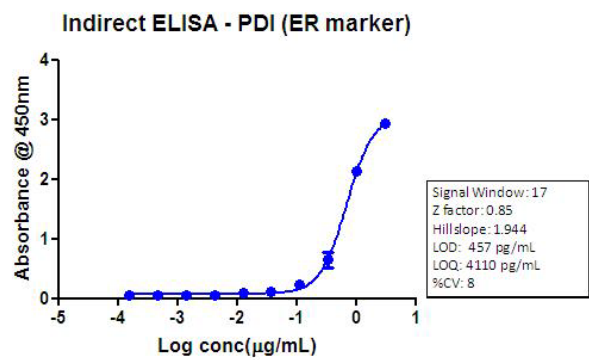
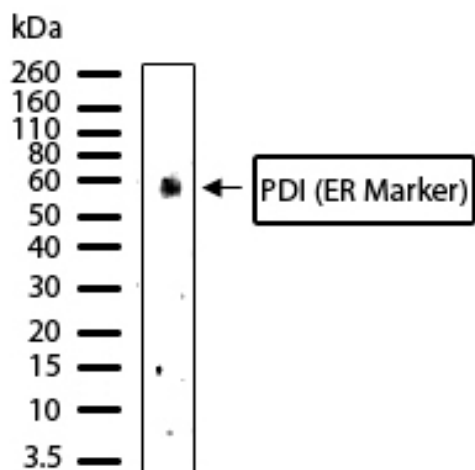
Applications:

	Species	Test Material	Concentration
Western Blotting	Human	HEK	2 - 5 µg/ml
Indirect ELISA	Human	Recombinant Protein	1.5x10 ⁻⁴ - 3 µg/ml

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Western Blot analysis of PDI (ER Marker) ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. No.700782).
 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) ABfinity™ Recombinant Rabbit Monoclonal Antibody at 2.5µg/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) ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. No.700782).
 Indirect ELISA was done using PDI (ER Marker) ABfinity™ Recombinant Rabbit Monoclonal Antibody to detect PDI (ER Marker) the recombinant protein (300 ng/well), using TMB (Cat. No. SB01) as substrate.

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		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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