Product Datasheet

PDI Antibody (HRP) (orb151396)

Catalog Number	orb151396
Category	Antibodies
Description	Rabbit polyclonal to PDI (HRP). The three dimensional structure of many extracellular proteins is stabilized by the formation of disulphide bonds. Studies suggest that a microsomal enzyme known as Protein Disulphide Isomerase (PDI) is involved in disulphide-bond formation via its oxidase activity and isomerization via its isomerase activity, as well as the reduction of disulphide bonds in proteins. Studies suggest BiP and PDI work together sequentially to increase oxidation of these proteins. PDI has also been found to function as a chaperone to prevent the aggregation of unfolded substrates, and serves as a subunit of prolyl 4-hydroxylase and microsomal triglyceride transferase. PDI is an abundant 55kDa protein located primarily in the ER, however studies have also proved its presence in the cytosol. PDI has the ability to reside in the ER permanently due to the highly conserved KDEL sequence at its carboxy-terminus. It uses carboxy-terminal KDEL as a retention signal, and this appears to be sufficient to reduce the secretion of proteins from the ER. This retention is reported to be mediated by a KDEL receptor..
Target	PDI
Clonality	Polyclonal
Species/Host	Rabbit
Conjugation	HRP
Reactivity	Bovine, Canine, Frog, Guinea pig, Hamster, Human, Invertebrate, Mouse, Mussel, Porcine, Rat, Sheep
Concentration	1 mg/ml
Buffer/Preservatives	73.64mM Carbonate, 54.55mM Ethanolamine, 45.45mM Cyanoborohydride, 18.18mM Sodium Hydroxide, 0.23mM Citrate

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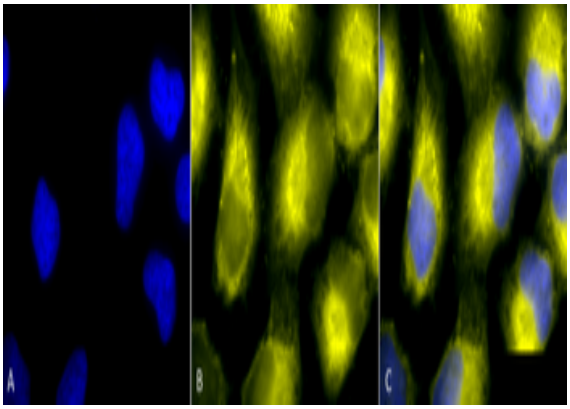
Purification	Protein A purified
Immunogen	AA499-509 of Rat PDI
UniProt ID	**P04785**
MW	58kDa
Tested applications	ICC, IF, IHC, IP, WB
Dilution range	WB (1:1000), ICC/IF (1:100)
Application notes	A 1:1000 dilution of SPC-114 was sufficient for detection of PDI in 20 µg of HeLa cell lysate by ECL immunoblot analysis.
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Entrez	**287164**
NCBI	**NP_001099245.2**



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-PDI Polyclonal Antibody. Tissue: Cervical cancer cell line (HeLa). Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-PDI Polyclonal Antibody at 1:100 for 12 hours at 4°C. Secondary Antibody: R-PE Goat Anti-Rabbit (yellow) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Endoplasmic reticulum lumen. Melanosome. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-PDI Antibody. (C) Composite.

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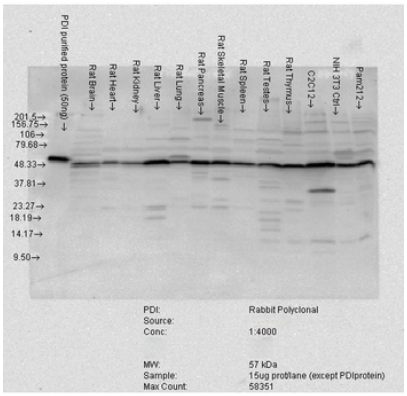
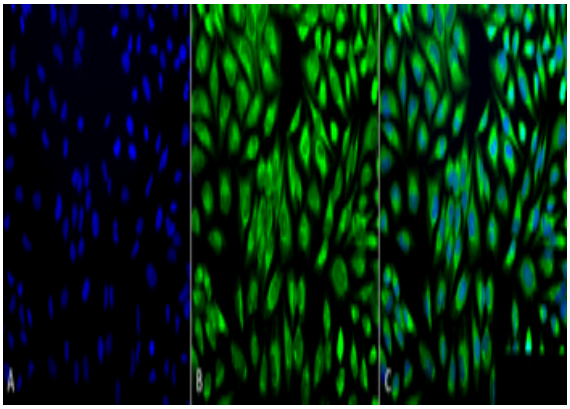


Western blot analysis of Rat tissue mix showing detection of PDI protein using Rabbit Anti-PDI Polyclonal Antibody. Load: 15 µgprotein. Block: 1.5% BSA. Primary Antibody: Rabbit Anti-PDI Polyclonal Antibody at 1:4000 for 2 hours at RT. Secondary Antibody: Donkey Anti-Rabbit IgG: HRP for 1 hour at RT.



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