For Research Use Only

PDI Recombinant monoclonal antibody

Catalog Number:80170-1-RR Featured Product 1 Publications

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Basic Information

Catalog Number:
80170-1-RR

Size:
100ul , Concentration: 500 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1747

GenBank Accession Number:
NM_000918

GeneID (NCBI):
5034

UNIPROT ID:
P07237

Full Name:
prolyl 4-hydroxylase, beta polypeptide

Calculated MW:
57 kDa

Observed MW:
57 kDa

Purification Method:
Protein A purification

CloneNo.:
4K17

Recommended Dilutions:
WB: 1:5000-1:50000
IHC: 1:500-1:2000
IF-P: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Cited Applications:
IHC

Species Specificity:
human, mouse, rat

Cited Species:
mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, PC-12 cells, NIH/3T3 cells, 4T1 cells

IHC : human prostate cancer tissue, human colon tissue

IF-P : mouse lung tissue,

Background Information

PDIA1(Protein disulfide-isomerase) is also named as ERBA2L, PDI, P4HB, PO4DB. It is a multifunctional protein that catalyzes the formation, breakage and rearrangement of disulfide bonds. In some cell types, it seems to be secreted or associated with the plasma membrane, where it undergoes constant shedding and replacement from intracellular sources.It can exsit as homodimer and monomers and homotetramers may also occur(PMID:12095988).

Notable Publications

Author	Pubmed ID	Journal	Application
Zeru Xiao	37857481	Cancer Prev Res (Phila)	IHC

Storage

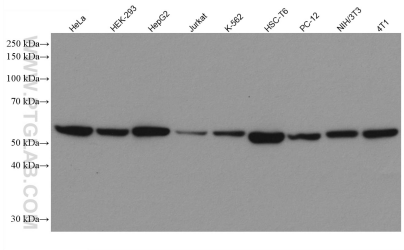
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

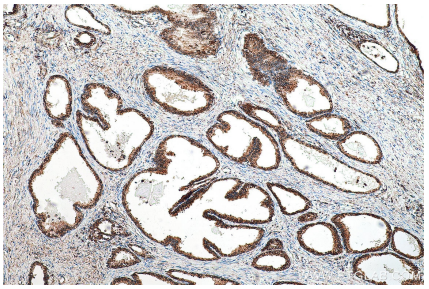
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

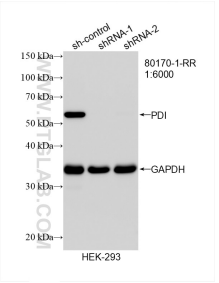
Selected Validation Data



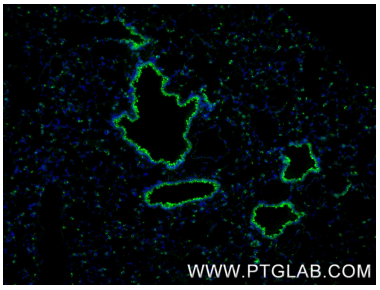
Various lysates were subjected to SDS PAGE followed by western blot with 80170-1-RR (PDI antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



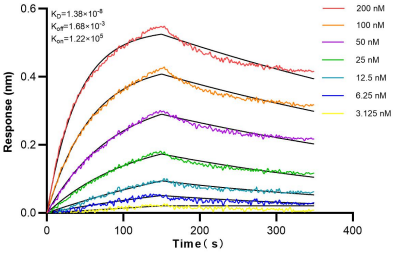
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 80170-1-RR (PDI antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of PDI antibody (80170-1-RR; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PDI transfected HEK-293 cells.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse lung tissue using PDI antibody (80170-1-RR, Clone: 4K17) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 80170-1-RR against Human PDI were performed. The affinity constant is 13.8 nM.