

PDI Monoclonal Antibody (RL77)

Product Details	
Size	100 µL
Species Reactivity	Dog, Hamster, Human, Mouse, Pig, Rat, Xenopus
Published Species	Rat, Pig, Non-human primate, Hamster, Human, Mouse
Host/Isotype	Mouse / IgG2b
Class	Monoclonal
Type	Antibody
Clone	RL77
Conjugate	Unconjugated
Immunogen	Purified rat PDI protein.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	ascites diluted in PBS
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2163123

Applications	Tested Dilution	Publications
Western Blot (WB)	1:200-1:2,000	11 Publications
Immunohistochemistry (IHC)	1:100	2 Publications
Immunocytochemistry (ICC/IF)	Assay-dependent	20 Publications
Flow Cytometry (Flow)	Assay-dependent	1 Publication
Immunoprecipitation (IP)	Assay-dependent	1 Publication
Neutralization (Neu)	-	1 Publication

Product Specific Information

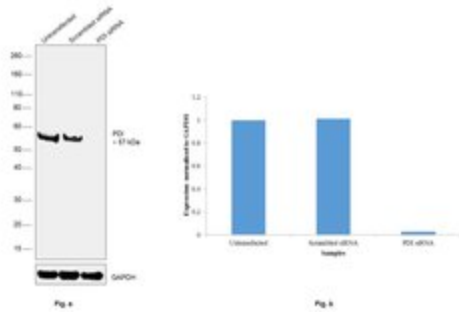
MA3-018 detects protein disulphide-isomerase (PDI) from human, mouse, rat, porcine, xenopus liver tissues as well as hamster (CHO) cells and canine samples.

MA3-018 has been successfully used in Western blot, immunofluorescence, immunohistochemical, flow cytometry, and immunoprecipitation procedures. By Western blot, this antibody detects a 59 kDa protein representing PDI from rat liver extract or a slightly higher protein at 61 kDa representing PDI from human liver extract. Immunohistochemical staining of PDI in rat intestine with MA3-018 yields a pattern consistent with cytoplasmic staining. In immunoprecipitation procedures MA3-018 has been shown to inhibit the activity of PDI in vitro.

In immunohistochemistry procedures, formalin-fixed paraffin-embedded tissue sections are recommended.

The MA3-018 antigen is purified rat PDI.

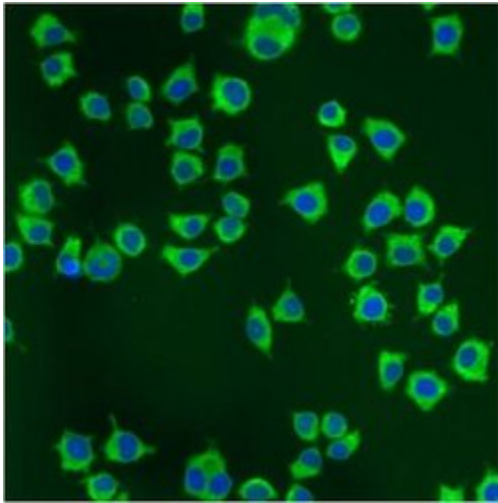
Advanced Verification Data



PDI Antibody (MA3-018)

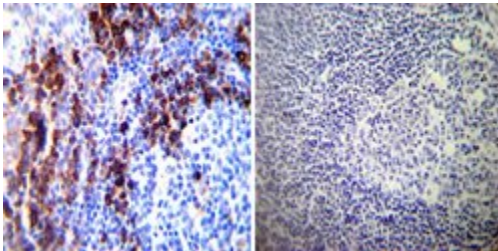
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. A-431 cells were transfected with PDI siRNA and reduction of signal was observed in Western Blot using PDI Monoclonal Antibody (Product # MA3-018). Knockdown validation info.

Product Images For PDI Monoclonal Antibody (RL77)



PDI Antibody (MA3-018) in ICC/IF

Immunofluorescent analysis of PDI using anti-PDI monoclonal antibody (Product # MA3-018) shows staining in NS-1 Cells.



PDI Antibody (MA3-018) in IHC

Immunohistochemistry was performed on normal deparaffinized Human tonsil tissue tissues. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:200 with a mouse monoclonal antibody recognizing PDI (Product # MA3-018) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.

[View more figures on thermofisher.com](https://www.thermofisher.com)

36 References

Western Blot (11)

Sustained SREBP-1-dependent lipogenesis as a key mediator of resistance to BRAF-targeted therapy.

"MA3-018 was used in Western Blotting to show that targeting Sterol Regulator Element Binding-induced lipogenesis may offer a new avenue to overcome acquisition of resistance to BRAF-targeted therapy."

Authors: Talebi A,Dehairs J,Rambow F,Rogiers A,Nittner D,Derua R,Vanderhoydonc F,Duarte JAG,Bosisio F, Van den Eynde K,Nys K,Pérez MV,Agostinis P,Waelkens E, Van den Oord J,Fendt SM,Marine JC,Swinnen JV

Species
Human

Dilution
Not Cited

Year
2018

The Journal of biological chemistry

UBE3B Is a Calmodulin-regulated, Mitochondrion-associated E3 Ubiquitin Ligase.

"MA3-018 was used in western blot to investigate the cellular and enzymatic function of UBE3B"

Authors: Braganza A,Li J,Zeng X,Yates NA,Dey NB,Andrews J,Clark J,Zamani L,Wang XH,St Croix C,O'Sullivan R, Garcia-Exposito L,Brodsky JL,Sobol RW

Species
Human

Dilution
Not Cited

Year
2017

[View more WB references on thermofisher.com](#)

Immunohistochemistry (2)

Journal of the American Society of Nephrology : JASN

Vascular expression of polycystin-2.

"MA3-018 was used in immunohistochemistry to investigate the expression of polycystin-2 in vascular smooth muscle cells"

Authors: Torres VE,Cai Y,Chen XI,Wu GQ,Geng L,Cleghorn KA,Johnson CM,Somlo S

Species
Pig

Dilution
1:1,000

Year
2001

Neurobiology of disease

PMP22 carrying the trembler or trembler-J mutation is intracellularly retained in myelinating Schwann cells.

"MA3-018 was used in immunohistochemistry to study the role of PMP22 trembler or trembler-J mutations retained within the endoplasmic reticulum of myelinating Schwann cells"

Authors: Colby J,Nicholson R,Dickson KM,Orfali W,Naef R,Suter U,Snipes GJ

Species
Rat

Dilution
1:200

Year
2000

More applications with references on thermofisher.com

ICC/IF (20)

Flow (1)

IP (1)

Neu (1)

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