



POLYCLONAL ANTIBODY

For research use only, Not for diagnostic use.

Catalog No. ICA-TG6-MSP1

Anti mouse PRDX4 [Peroxiredoxin-4]

BACKGROUND

Peroxiredoxin-4 is an antioxidant enzyme and belongs to the peroxiredoxin family. The protein is localized to the cytoplasm. Peroxidases of the peroxiredoxin family reduce hydrogen peroxide and alkyl hydroperoxides to water and alcohol with the use of reducing equivalents derived from thiol-containing donor molecules. This protein has been found to play a regulatory role in the activation of the transcription factor NF-kappaB.

Product type	Primary antibody
Immunogen	ICANtibodies™ encoding mouse PRDX4 full length nucleic acid sequence
Host Species	Mouse
Fusion Partner	-
Clone Designation	-
Isotype	-
Source	Whole Serum
Purification	-
Formulation Buffer /Form	Liquid (Preservative : None)
Concentration	-
Volume	50 µL
Label	Unlabeled
Specificity	mouse PRDX4
Cross species reactivity	Other species is not tested.
Storage Conditions	Store at -20°C (at -70°C for prolonged storage). Aliquot to avoid cycles of freeze/thaw. Storage Instructions : Prepare fresh working dilution before use. Avoid repeated freezing and thawing cycles (it is advisable to make aliquots before storage). Alternatively, add an equal volume of glycerol (ACS grade or better) for a final concentration of 50% and store at -20°C as a liquid. Note : Adding glycerol reduces the stated protein concentration and dilution range by one-half

Application notes	• Immunohistochemistry: 1/20
Recommended dilutions	• Flow cytometry: 1/100
	• ELISA: 1/500

Other applications have not been tested.
Optimal dilutions/concentrations should be determined by the end user.

References	-
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ANTIBODY CHARACTERIZATION

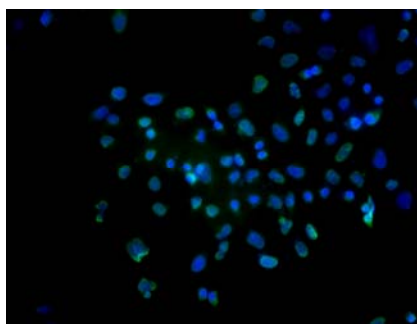


Fig.1 Immunohistochemistry. HeLa cells transfected with ICAfectin441[®] and plasmid encoding mouse PRDX4 were fixed 24h post transfection, permeabilized and stained with mouse anti-mouse PRDX4 Polyclonal Antibodies diluted 1/20 and Alexa488 goat anti mouse IgG secondary antibody at dilution 1/1000. Nuclei were counterstained with DAPI in blue.

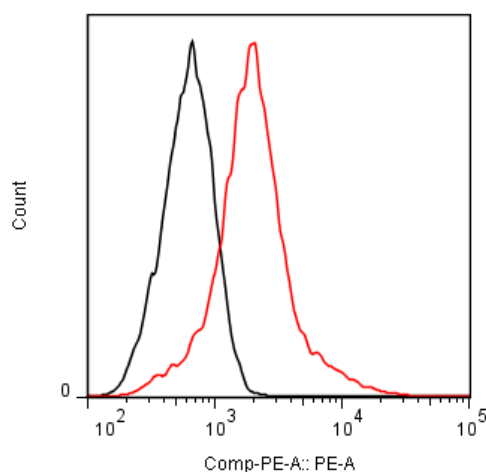


Fig.2 Flow cytometry: Untransfected (black) and transfected with ICAfectin[®]441 and plasmid encoding mouse PRDX4 (red) HeLa cells were fixed 24 hours post transfection, permeabilized and stained with mouse anti-mouse PRDX4 Polyclonal Antibodies diluted 1/100 and R-PE goat anti mouse IgG secondary antibody at the dilution 1/200.

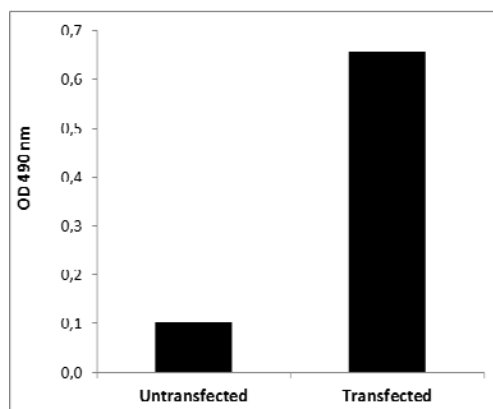



Fig.3 ELISA: Lysates of untransfected and transfected HeLa cells with ICAfectin[®]441 and plasmid encoding mouse PRDX4 were coated on MaxiSorp plates (Nunc) in bicarbonate buffer. Determination of anti-mouse PRDX4 Polyclonal IgG in the mouse sera was performed by using HRP goat anti mouse IgG secondary antibody at the dilution 1/5000.

Developed by In-Cell-Art 

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