Datasheet for ABIN954101

anti-Peroxiredoxin 4 antibody (Middle Region)

4 Images

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Overview

Quantity:	0.4 mL
Target:	Peroxiredoxin 4 (PRDX4)
Binding Specificity:	AA 89-118, Middle Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Peroxiredoxin 4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 89-118 amino acids from the Central region of human PRDX4
Isotype:	Ig Fraction
Specificity:	This antibody reacts to PRDX4.
Cross-Reactivity (Details):	Species reactivity (tested):Human and Mouse.
Purification:	Affinity chromatography on Protein A

Target Details

Target:	Peroxiredoxin 4 (PRDX4)

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Target Details

Alternative Name:	Peroxiredoxin-4 / PRDX4 (PRDX4 Products)
Background:	The protein encoded by this gene 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.Synonyms: AOE37-2, Antioxidant enzyme AOE372, PRDX-4, Prx-4, Prx-IV, Prx4, Thioredoxin peroxidase AO372, Thioredoxin-dependent peroxide reductase A0372
Molecular Weight:	30540 Da
Gene ID:	10549
NCBI Accession:	NP_006397

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS, 0.09 % (W/V) sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

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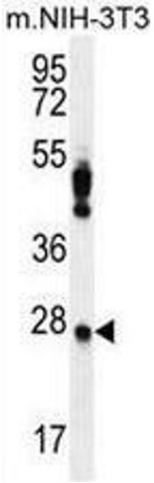
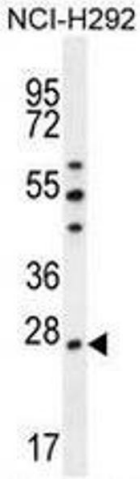


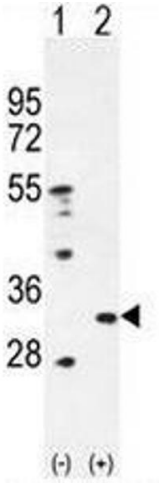
Western Blotting

Image 1. PRDX4 Antibody (Center) western blot analysis in mouse NIH-3T3 cell line lysates (35µg/lane).This demonstrates the PRDX4 antibody detected the PRDX4 protein (arrow).



Western Blotting

Image 2. PRDX4 Antibody (Center) western blot analysis in NCI-H292 cell line lysates (35µg/lane).This demonstrates the PRDX4 antibody detected the PRDX4 protein (arrow).



Western Blotting

Image 3. Western blot analysis of PRDX4 (arrow) using rabbit polyclonal PRDX4 Antibody (Center) . 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PRDX4 gene.

Please check the product details page for more images. Overall 4 images are available for ABIN954101.