

Rabbit Peroxiredoxin 3 Polyclonal Antibody | anti-PRDX3 antibody

Anti-Peroxiredoxin 3 antibody

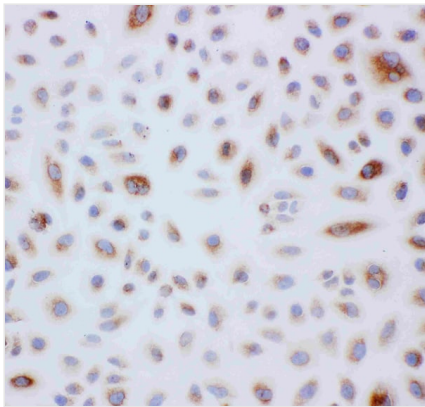
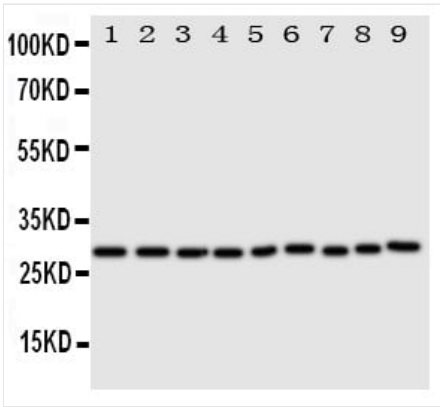
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA45480	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Peroxiredoxin 3; Polyclonal Antibody; Anti-Peroxiredoxin 3 antibody; Thioredoxin-dependent peroxide reductase; mitochondrial; peroxiredoxin 3; Antioxidant Protein 1 antibody; AOP 1 antibody; AOP-1 antibody; AOP1 antibody; HBC189 antibody; MER 5 antibody; MER5 antibody; MGC104387 antibody; MGC24293 antibody; mitochondrial antibody; Mitochondrial thioredoxin dependent peroxide reductase antibody; peroxiredoxin 3 antibody; PeroxiredoxinIII antibody; Peroxiredoxin-3 antibody; Peroxiredoxin3 antibody; PRDX 3 antibody; PRDX3 antibody; PRDX3_HUMAN antibody; PRO1748 antibody; Protein MER5 homolog antibody; PRX III antibody; PRXIII antibody; Prx-III antibody; PRX3 antibody; SP 22 antibody; SP-22 antibody; SP22 antibody; Thioredoxin dependent peroxide reductase mitochondrial antibody; Thioredoxin dependent peroxide reductase precursor antibody; Thioredoxin-dependent peroxide reductase antibody; anti-PRDX3 antibody

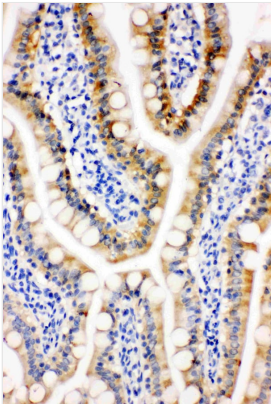
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	257
Applicable Applications for anti-PRDX3 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Peroxiredoxin 3 (240-257aa TIKPSPTASKEYFEKVHQ), identical to the related rat sequence, and different from the related human sequence by three amino acids.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

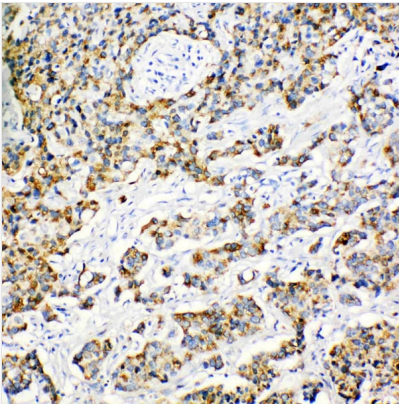


WB (Western Blot)
Anti-Peroxiredoxin 3 antibody, AAA45480, Western blottingAll lanes: Anti Peroxiredoxin 3 (AAA45480) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Rat Lung Tissue Lysate at 50ugLane 3: Rat Kidney Tissue Lysate at 50ugLane 4: HELA Whole Cell Lysate at 40ugLane 5: JURKAT Whole Cell Lysate at 40ugLane 6: 293T Whole Cell Lysate at 40ugLane 7: MCF-7 Whole Cell Lysate at 40ugLane 8: A549 Whole Cell Lysate at 40ugLane 9: U20S Whole Cell Lysate at 40ugPredicted bind size: 28KDObserved bind size: 28KD

IHC (Immunohistochemistry)
Anti-Peroxiredoxin 3 antibody, AAA45480, IHC(P)IHC(P): Rat Intestine Tissue



IHC (Immunohistochemistry)
Anti-Peroxiredoxin 3 antibody, AAA45480, IHC(P)IHC(P): Rat Intestine Tissue



IHC (Immunohistochemistry)
Anti-Peroxiredoxin 3 antibody, AAA45480, IHC(P)IHC(P): Human Mammary Cancer Tissue

ADDITIONAL INFORMATION

Related Product Information for anti-PRDX3 antibody	Description: Rabbit IgG polyclonal antibody for Thioredoxin-dependent peroxide reductase, mitochondrial(PRDX3) detection. Tested with WB, IHC-P in Human, Mouse, Rat. Background: PRDX3(peroxiredoxin 3) also known as AOP-1, MER5, SP-22 or PRX3, is localized exclusively in mitochondria. The deduced 256-amino acid human AOP1 protein shares 86% amino acid sequence similarity with mouse Aop1, and significant similarity with both the human proliferation-associated gene A product and the mouse stress-induced peritoneal macrophage protein Msp23. The PRDX3 gene is mapped on 10q26.11. Expression of PRDX3 is induced by MYC and is reduced in c-myc -/- cells. Chromatin immunoprecipitation analysis spanning the entire PRDX3 genomic sequence revealed that MYC binds preferentially to a 930-bp region surrounding exon 1. Results using mitochondria-specific fluorescent probes demonstrated that PRDX3 is essential for maintaining mitochondrial mass and membrane potential in transformed rat and human cells. These data provided evidence that PRDX3 is a MYC target gene that is required to maintain normal mitochondrial function.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	126986
NCBI GeneID	11757
UniProt Accession #	P20108
Molecular Weight	28,127 Da

NCBI Official Full Name	Thioredoxin-dependent peroxide reductase, mitochondrial
NCBI Official Synonym Full Names	peroxiredoxin 3
NCBI Official Symbol	Prdx3
NCBI Official Synonym Symbols	Aop1; Ef2l; Mer5; Prx3; SP22; TDXM; D0Tohi1; AW822249
NCBI Protein Information	thioredoxin-dependent peroxide reductase, mitochondrial; AOP-1; Prx III; periredoxin-3; peroxiredoxin III; antioxidant protein; anti-oxidant protein 1; mitochondrial Trx dependent peroxide reductase; mitochondrial thioredoxin dependent peroxide reductase
UniProt Protein Name	Thioredoxin-dependent peroxide reductase, mitochondrial
UniProt Gene Name	Prdx3
UniProt Synonym Gene Names	Aop1; Mer5; AOP-1
UniProt Entry Name	PRDX3_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/peroxiredoxin-3-antibody-immunohistochemistry-western-blot-elisa/45480>