

Peroxiredoxin 5 Polyclonal Antibody | anti-PRDX5 antibody

Anti-Peroxiredoxin 5 Antibody

CATALOG # AAA46292	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunocytochemistry, Immunohistochemistry, Western Blot
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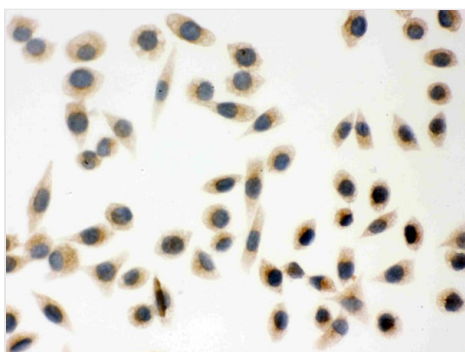
PRODUCT SYNONYMS

Peroxiredoxin 5; Polyclonal Antibody; Anti-Peroxiredoxin 5 Antibody; Peroxiredoxin-5; ACR 1; ACR1; Alu co repressor 1; Alu co-repressor 1; Alu corepressor 1; antioxidant enzyme B166; AOEB166; B166; liver tissue 2D-page spot 71B; MGC117264; MGC142283; MGC142285; mitochondrial; Peroxiredoxin 5 mitochondrial; Peroxiredoxin V; Peroxiredoxin5; peroxisomal antioxidant enzyme; PLP; PMP 20; PMP20; PRDX 5; PRDX 6; PRDX5; PRDX5_HUMAN; PRDX6; Prx V; Prx-V; PRXV; SBB110; thioredoxin peroxidase PMP20; Thioredoxin reductase; TPx type VI antibody; peroxiredoxin 5; anti-PRDX5 antibody

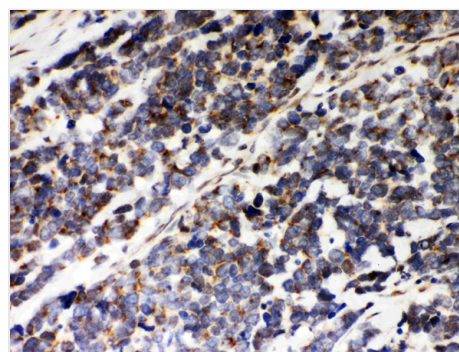
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	214
Applicable Applications for anti-PRDX5 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Peroxiredoxin 5 recombinant protein (Position: E66-D198). Human Peroxiredoxin 5 shares 91% amino acid (aa) sequence identity with both mouse and rat Peroxiredoxin 5.
Ig Type	Rabbit IgG
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 aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

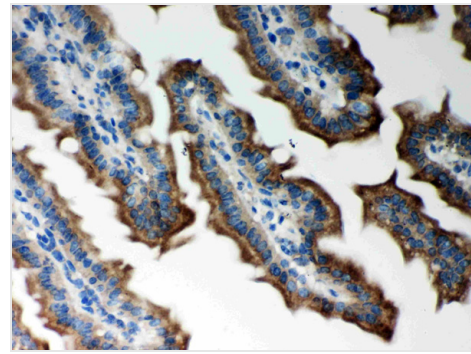
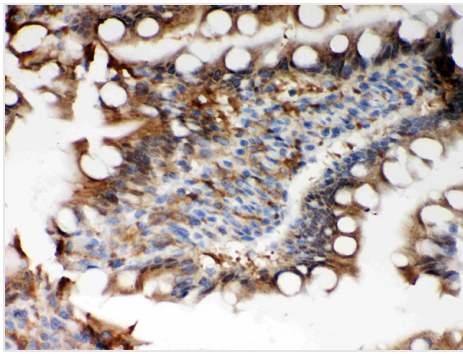
IMAGES


ICC (Immunocytochemistry)

Anti- Peroxiredoxin 5 Picoband antibody, AAA46292, ICCICC: SMMC Cell

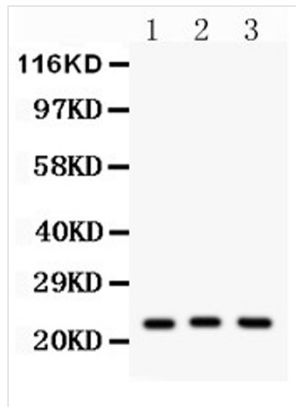

IHC (Immunohistochemistry)

Anti- Peroxiredoxin 5 Picoband antibody, AAA46292, IHC(P)IHC(P): Human Lung Cancer Tissue



IHC (Immunohistochemistry)
Anti- Peroxiredoxin 5 Picoband antibody, AAA46292, IHC(P)IHC(P): Rat Intestine Tissue

IHC (Immunohistochemistry)
Anti- Peroxiredoxin 5 Picoband antibody, AAA46292, IHC(P)IHC(P): Mouse Intestine Tissue



WB (Western Blot)
Anti- Peroxiredoxin 5 Picoband antibody, AAA46292, Western blottingAll lanes: Anti Peroxiredoxin 5 (AAA46292) at 0.5ug/mL Lane 1: A549 Whole Cell Lysate at 40ug Lane 2: Rat Brain Tissue Lysate at 50ug Lane 3: Mouse Brain Tissue Lysate at 50ug Predicted bind size: 22KDObserved bind size: 22KD

ADDITIONAL INFORMATION

Related Product Information for anti-PRDX5 antibody	Description: Rabbit IgG polyclonal antibody for Peroxiredoxin-5, mitochondrial(PRDX5) detection. Tested with WB, IHC-P, ICC in Human;Mouse;Rat. Background: PRDX5 (peroxiredoxin 5) also known as AOEB166, ACR1,B166, MGC117264, MGC142283, MGC142285, PLP, PMP20, PRDX6, PRXV, SBBI10, is a member of the peroxiredoxin family and may play an antioxidant protective role in various tissues under nonpathologic conditions and during inflammatory processes. The PRDX5 gene is mapped to11q13.1. PRDX5 displays mitochondrial presequence features and has 3 cysteines implicated in antioxidant activity and a C-terminal SQL peroxisomal targeting sequence. Northern blot analysis revealed ubiquitous expression of a 1.0-kb PRDX5 transcript in tissues and cell lines. Functional analysis showed that PRDX5 has antioxidant activity equivalent to that of CAT. While PRDX5 was localized to fibroblasts in normal tendon, it was localized to fibroblasts and endothelial cells in degenerative tendon. PRDX5 mRNA and protein levels increased at 12 hours, and the increase in PRDX5 expression correlated with reduced peroxide levels. PRDX5 plays a protective role against oxidative stress in human cartilage.
References	1. Budanov, A. V., Sablina, A. A., Feinstein, E., Koonin, E. V., Chumakov, P. M. Regeneration of peroxiredoxins by p53-regulated sestrins, homologs of bacterial AhpD. Science 304: 596-600, 2004. 2. Knoops, B., Clippe, A., Bogard, C., Arsalane, K., Wattiez, R., Hermans, C., Duconseille, E., Falmagne, P., Bernard, A. Cloning and characterization of AOEB166, a novel mammalian antioxidant enzyme of the peroxiredoxin family. J. Biol. Chem. 274: 30451-30458, 1999. 3. Wang, M.-X., Wei, A., Yuan, J., Trickett, A., Knoops, B., Murrell, G. A. C. Expression and regulation of peroxiredoxin 5 in human osteoarthritis. FEBS Lett. 531: 359-362, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6912238
NCBI GeneID	25824

NCBI Accession #	NP_036226.1
NCBI GenBank Nucleotide #	NM_012094.4
UniProt Accession #	P30044 ; Q14CK0 ; Q6IAF2 ; Q9UBU5 ; Q9UJU4 ; Q9UKX4 ; A6NC19 ; A6NG06 ; B7ZLJ4 ; B7ZVW3
Molecular Weight	12,897 Da
NCBI Official Full Name	peroxiredoxin-5, mitochondrial isoform a
NCBI Official Synonym Full Names	peroxiredoxin 5
NCBI Official Symbol	PRDX5
NCBI Official Synonym Symbols	PLP; ACR1; B166; PRXV; PMP20; PRDX6; prx-V; SBBI10; AOEB166; HEL-S-55
NCBI Protein Information	peroxiredoxin-5, mitochondrial
UniProt Protein Name	Peroxioredoxin-5, mitochondrial
UniProt Gene Name	PRDX5
UniProt Synonym Gene Names	ACR1; AOEB166; Prx-V
UniProt Entry Name	PRDX5_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/peroxiredoxin-5-antibody-immunocytochemistry-immunohistochemistry-western-blot-elisa/46292>