

Datasheet for ABIN3043906  
**anti-Peroxiredoxin 5 antibody (AA 66-198)**



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6 Images

Overview

Quantity:	100 µg
Target:	Peroxiredoxin 5 (PRDX5)
Binding Specificity:	AA 66-198
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Peroxiredoxin 5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Peroxiredoxin-5, mitochondrial(PRDX5) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.
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.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Peroxiredoxin-5, mitochondrial(PRDX5) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.  Gene Name: peroxiredoxin 5

## Product Details

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Protein Name: Peroxiredoxin-5, mitochondrial

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Purification: Immunogen affinity purified.

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## Target Details

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Target: Peroxiredoxin 5 (PRDX5)

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Alternative Name: PRDX5 ([PRDX5 Products](#))

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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.

Synonyms: ACR 1 antibody|ACR1 antibody|Alu co repressor 1 antibody|Alu co-repressor 1 antibody|Alu corepressor 1 antibody|antioxidant enzyme B166 antibody|AOEB166 antibody|B166 antibody|liver tissue 2D-page spot 71B antibody|MGC117264 antibody|MGC142283 antibody|MGC142285 antibody|mitochondrial antibody|Peroxiredoxin 5 mitochondrial antibody|Peroxiredoxin 5, mitochondrial antibody|Peroxiredoxin V antibody|Peroxiredoxin-5 antibody|Peroxiredoxin5 antibody|peroxisomal antioxidant enzyme antibody|PLP antibody|PMP 20 antibody|PMP20 antibody|PRDX 5 antibody|PRDX 6 antibody|PRDX5 antibody|PRDX5\_HUMAN antibody|PRDX6 antibody|Prx V antibody|Prx-V antibody|PRXV antibody|SBBI10 antibody|thioredoxin peroxidase PMP20 antibody|Thioredoxin reductase antibody|TPx type VI antibody

Gene ID: 25824

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UniProt: [P30044](#)

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Pathways: [Cell RedoxHomeostasis](#)

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## Application Details

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Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for Peroxiredoxin 5 is approximately 0.1 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested.</p> <p>Optimal dilutions should be determined by end users.</p>
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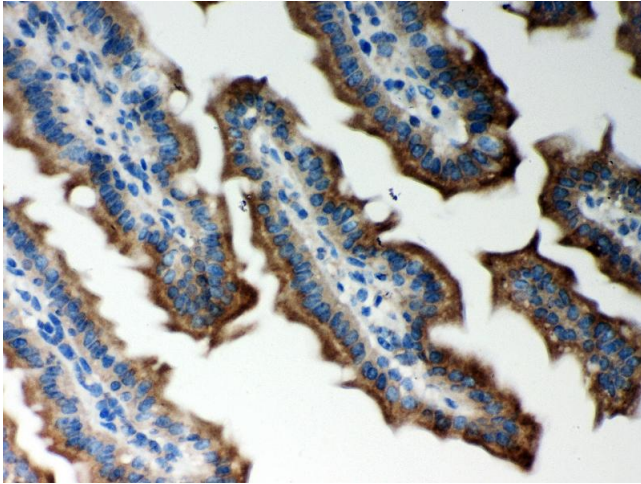
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.
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Restrictions:	For Research Use only
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## Handling

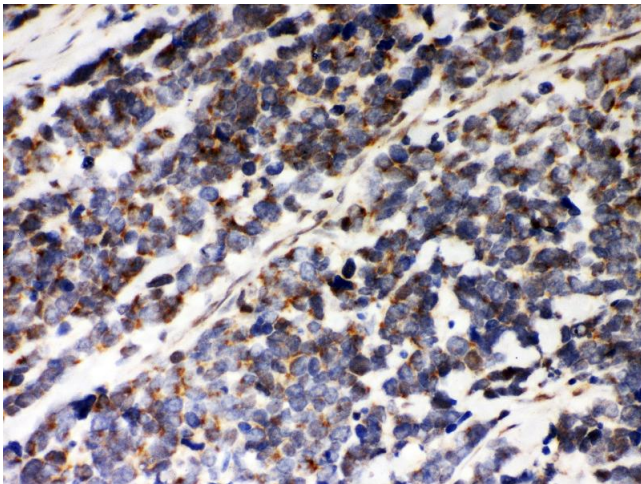
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Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	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:	<p>At -20°C for one year. After reconstitution, at 4°C for one month.</p> <p>It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.</p>



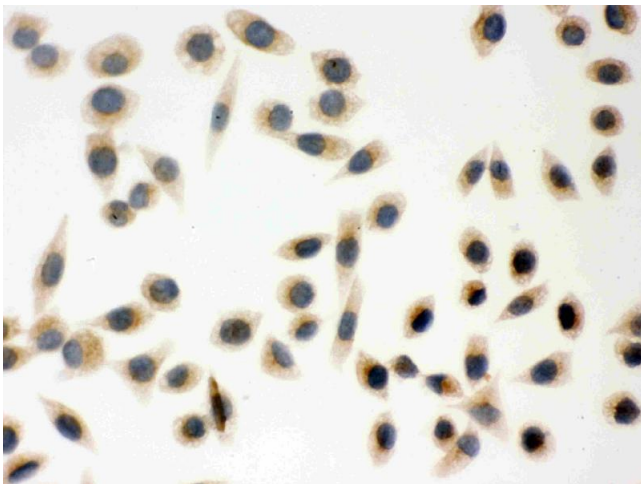
#### Immunohistochemistry

**Image 1.** Anti- Peroxiredoxin 5 Picoband antibody, IHC(P)  
IHC(P): Mouse Intestine Tissue



#### Immunohistochemistry

**Image 2.** Anti- Peroxiredoxin 5 Picoband antibody, IHC(P)  
IHC(P): Human Lung Cancer Tissue



#### Immunofluorescence

**Image 3.** Anti- Peroxiredoxin 5 Picoband antibody, ICC:  
SMMC Cell

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3043906.