

Product Datasheet

Anti-Peroxiredoxin 5/PRDX5 Antibody (orb251567)

Description	Anti-Peroxiredoxin 5/PRDX5 Antibody
Species/Host	Rabbit
Reactivity	Human, Mouse, Rat
Conjugation	Unconjugated
Tested Applications	FC, ICC, IF, IHC, WB
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.
Form/Appearance	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Western blot, 0.1-0.5µg/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1µg/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 2µg/ml, Human Flow Cytometry (Fixed), 1-3µg/1x10 ⁶ cells, Human. Add 0.2ml of distilled water will yield a concentration of 500ug/ml
Isotype	Rabbit IgG
Clonality	Polyclonal
Antibody Type	Primary Antibody
MW	22 kDa

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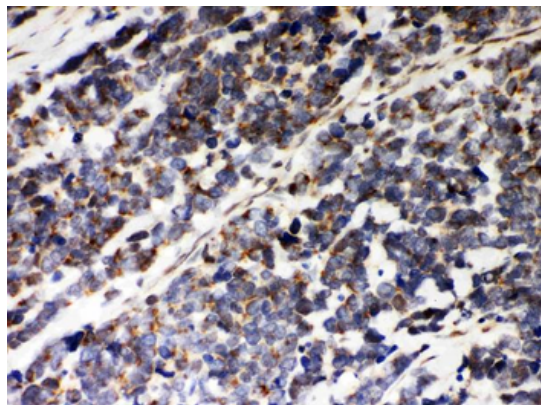
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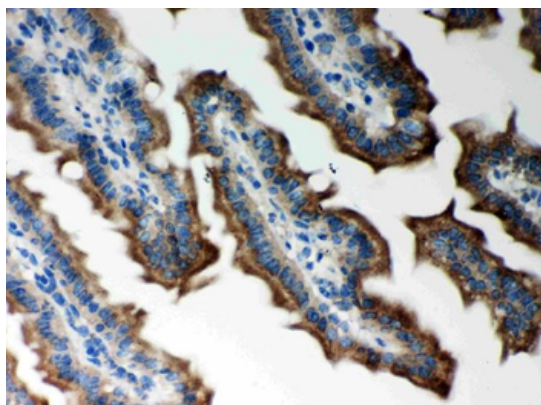
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Uniprot ID**P30044****Expiration Date**

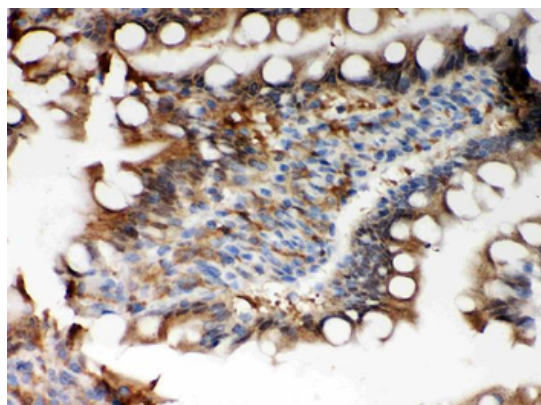
12 months from date of receipt.



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



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



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

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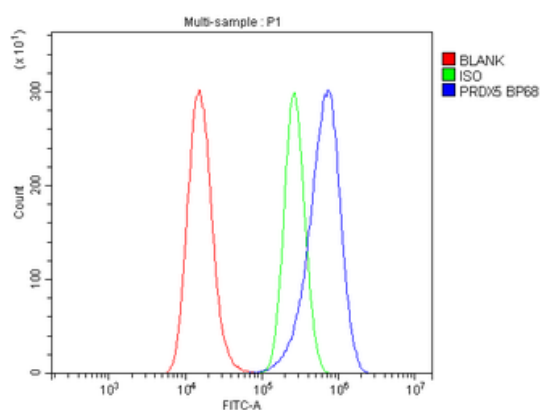
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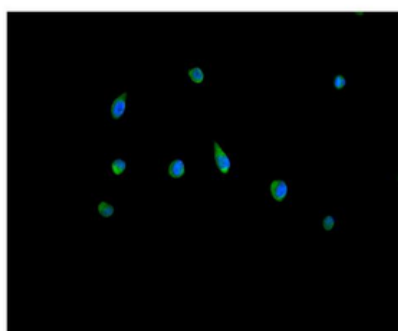
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Anti-Peroxiredoxin 5 Picoband antibody, Western blotting. All lanes: Anti Peroxiredoxin 5 at 0.5 ug/ml. Lane 1: A549 Whole Cell Lysate at 40 ug. Lane 2: Rat Brain Tissue Lysate at 50 ug. Lane 3: Mouse Brain Tissue Lysate at 50 ug. Predicted bind size: 22 KD. Observed bind size: 22 KD.



Flow Cytometry analysis of A549 cells using anti-Peroxiredoxin 5 antibody. Overlay histogram showing A549 cells (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Peroxiredoxin 5 Antibody (1 $\mu\text{g}/1 \times 10^6$ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (5-10 $\mu\text{g}/1 \times 10^6$ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 $\mu\text{g}/1 \times 10^6$) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



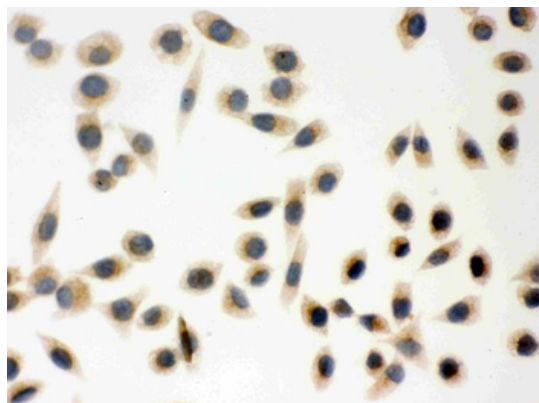
IF analysis of Peroxiredoxin 5 using anti-Peroxiredoxin 5 antibody. Peroxiredoxin 5 was detected in immunocytochemical section of HELA cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2 $\mu\text{g}/\text{mL}$ rabbit anti-Peroxiredoxin 5 Antibody overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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IHC analysis of Peroxiredoxin 5 using anti-Peroxiredoxin 5 antibody. Peroxiredoxin 5 was detected in immunocytochemical section of SMMC Cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 1 µg/ml rabbit anti-Peroxiredoxin 5 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

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