

Product Datasheet

Peroxiredoxin 2 Antibody (7F4) **NBP2-75614**

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-75614**Peroxiredoxin 2 Antibody (7F4)****Product Information**

| | |
|--------------------------------|----------------------------------------------------------------------------------------|
| Unit Size | 100 ul |
| Concentration | 2 mg/ml |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Monoclonal |
| Clone | 7F4 |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG1 |
| Purity | Protein G purified |
| Buffer | PBS (pH7.4), 0.2% BSA, 50% Glycerol |
| Target Molecular Weight | 22 kDa |

Product Description

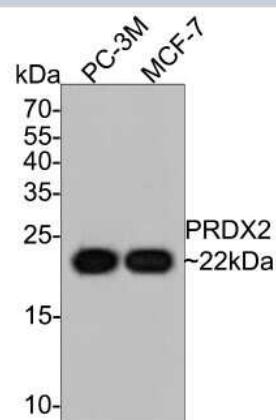
| | |
|--------------------|-------------------------------------------------------------------------------------|
| Host | Mouse |
| Gene Symbol | PRDX2 |
| Species | Human |
| Immunogen | Recombinant full length protein of Human Peroxiredoxin 2. (SwissProt: P32119 Human) |

Product Application Details

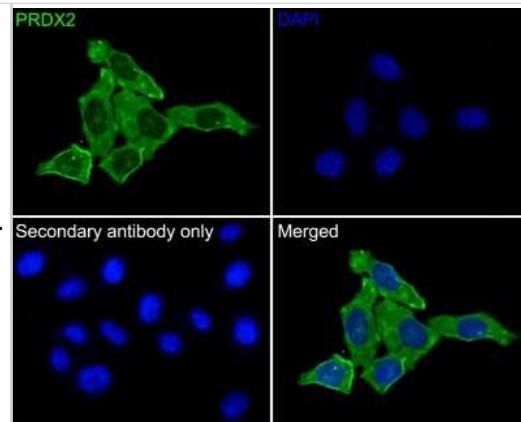
| | |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Applications | Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin |
| Recommended Dilutions | Western Blot 1:2000-1:10000, Flow Cytometry 1:50-1:100, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin |

Images

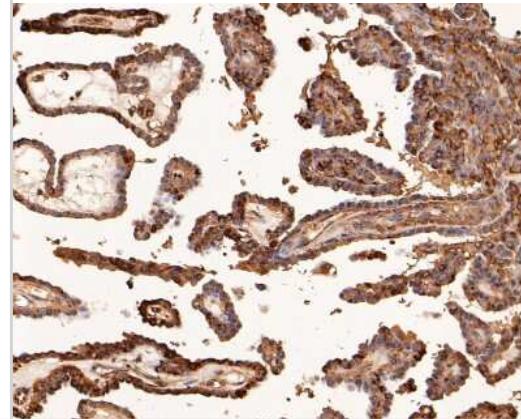
Western Blot: Peroxiredoxin 2 Antibody (7F4) [NBP2-75614] - Analysis of Peroxiredoxin 2 on different lysates with Mouse anti-Peroxiredoxin 2 antibody at 1/5,000 dilution. Lane 1: PC-3M cell lysate Lane 2: MCF-7 cell lysate Lysates/proteins at 10 ug/Lane. Predicted band size: 22 kDa Observed band size: 22 kDa Exposure time: 5 minutes; 15% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1/5,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody at 1:100,000 dilution was used for 1 hour at room temperature.



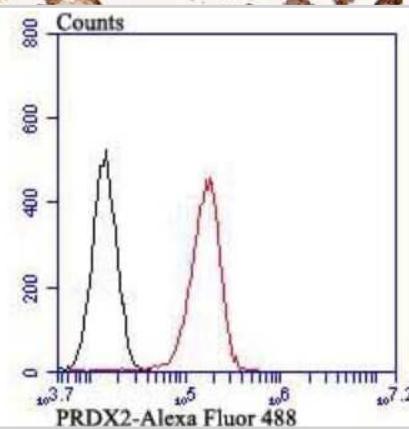
Immunocytochemistry/Immunofluorescence: Peroxiredoxin 2 Antibody (7F4) [NBP2-75614] - Analysis of HepG2 cells labeling PRDX2 with Mouse anti-Peroxiredoxin 2 antibody at 1/50 dilution. Cells were fixed in 4% paraformaldehyde for 30 minutes, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes, and then blocked with 2% BSA for 30 minutes at room temperature. Cells were then incubated with Mouse anti-Peroxiredoxin 2 antibody at 1/100 dilution in 2% BSA overnight at 4°C. Goat Anti-Mouse IgG H&L (iFluor(TM) 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.



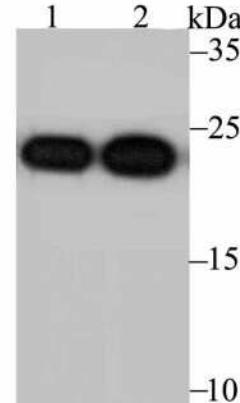
Immunohistochemistry-Paraffin: Peroxiredoxin 2 Antibody (7F4) [NBP2-75614] - Analysis of paraffin-embedded human thyroid carcinoma tissue with Mouse anti-PRDX2 antibody at 1/200 dilution. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



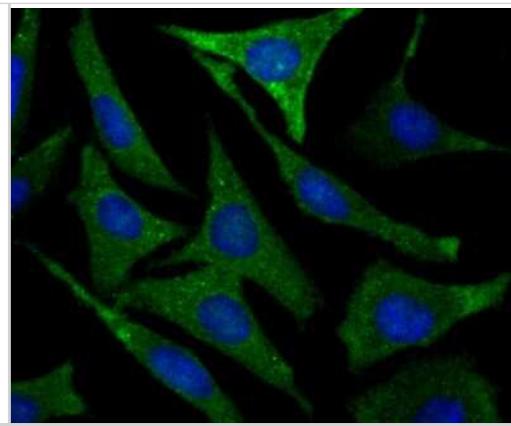
Flow Cytometry: Peroxiredoxin 2 Antibody (7F4) [NBP2-75614] - Analysis of PC-3M cells with Peroxiredoxin 2 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-mouse IgG was used as the secondary antibody.



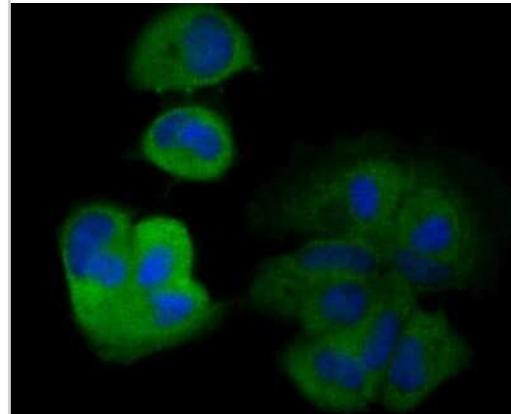
Western Blot: Peroxiredoxin 2 Antibody (7F4) [NBP2-75614] - Analysis of Peroxiredoxin 2 on PC-3M (1) and MCF-7 (2) using anti-Peroxiredoxin 2 antibody at 1/5,000 dilution.



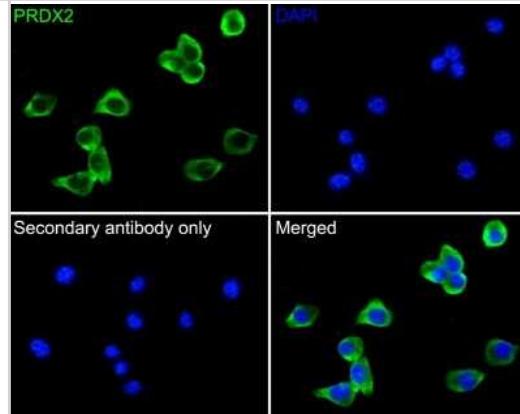
Immunocytochemistry/Immunofluorescence: Peroxiredoxin 2 Antibody (7F4) [NBP2-75614] - Staining Peroxiredoxin 2 (green) in SH-SY-5Y cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



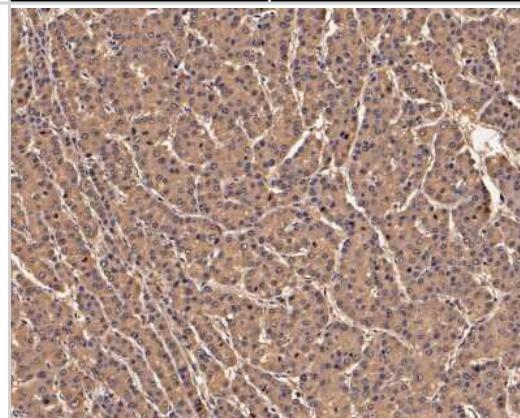
Immunocytochemistry/Immunofluorescence: Peroxiredoxin 2 Antibody (7F4) [NBP2-75614] - Staining Peroxiredoxin 2 (green) in MCF-7 cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Immunocytochemistry/Immunofluorescence: Peroxiredoxin 2 Antibody (7F4) [NBP2-75614] - Analysis of PC-3 cells labeling PRDX2 with Mouse anti-Peroxiredoxin 2 antibody at 1/50 dilution. Cells were fixed in 4% paraformaldehyde for 30 minutes, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes, and then blocked with 2% BSA for 30 minutes at room temperature. Cells were then incubated with Mouse anti-Peroxiredoxin 2 antibody at 1/100 dilution in 2% BSA overnight at 4°. Goat Anti-Mouse IgG H&L (iFluor(TM) 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.



Immunohistochemistry-Paraffin: Peroxiredoxin 2 Antibody (7F4) [NBP2-75614] - Analysis of paraffin-embedded human liver carcinoma tissue with Mouse anti-PRDX2 antibody (EM1701-71) at 1/200 dilution. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (EM1701-71) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.





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Limitations

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