

Peroxiredoxin 4 (PRDX4) Rabbit mAb

Catalog No.: A9131 **Recombinant**

Basic Information

Observed MW

27kDa

Calculated MW

31kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC1442

Background

The protein encoded by this gene is an antioxidant enzyme and belongs to the peroxiredoxin family. The protein is localized to the cytoplasm. Peroxidases of the peroxiredoxin family reduce hydrogen peroxide and alkyl hydroperoxides to water and alcohol with the use of reducing equivalents derived from thiol-containing donor molecules. This protein has been found to play a regulatory role in the activation of the transcription factor NF-kappaB.

Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

10549

Swiss Prot

Q13162

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human Peroxiredoxin 4 (PRDX4) (PRDX4) (Q13162).

Synonyms

PRX-4; AOE372; AOE37-2; HEL-S-97n; Peroxiredoxin 4 (PRDX4)

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

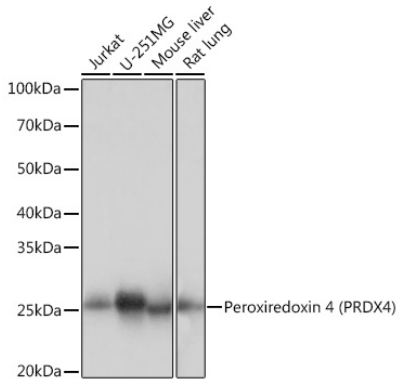
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of various lysates using Peroxiredoxin 4 (PRDX4) Rabbit mAb (A9131) at 1:1000 dilution.

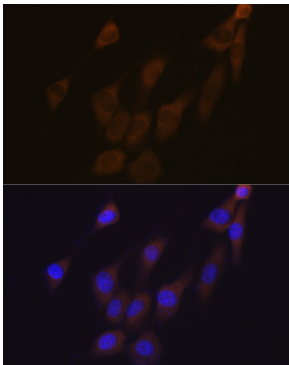
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

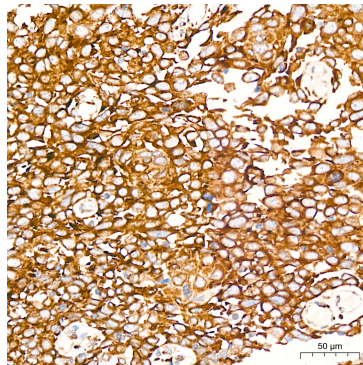
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

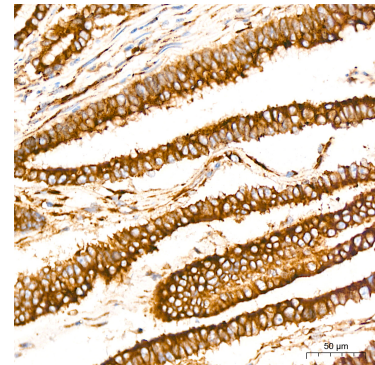
Exposure time: 3s.



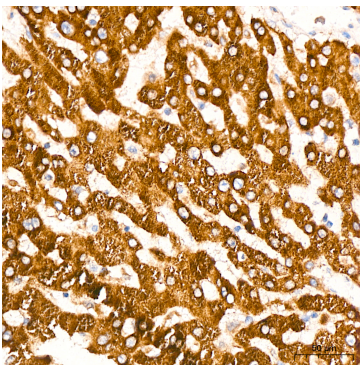
Immunofluorescence analysis of NIH-3T3 cells using Peroxiredoxin 4 (PRDX4) (PRDX4) Rabbit mAb (A9131) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



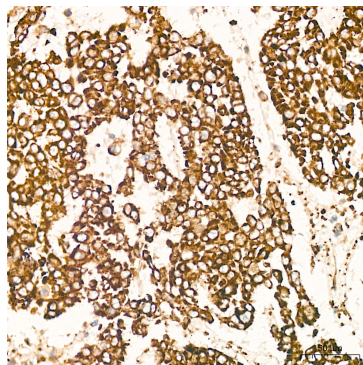
Immunohistochemistry analysis of Peroxiredoxin 4 (PRDX4) in paraffin-embedded human cervix cancer tissue using Peroxiredoxin 4 (PRDX4) Rabbit mAb (A9131) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



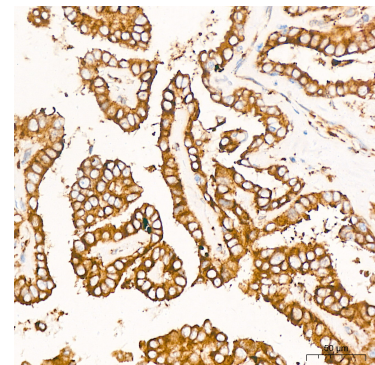
Immunohistochemistry analysis of Peroxiredoxin 4 (PRDX4) in paraffin-embedded human colon carcinoma tissue using Peroxiredoxin 4 (PRDX4) Rabbit mAb (A9131) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Peroxiredoxin 4 (PRDX4) in paraffin-embedded human liver tissue using Peroxiredoxin 4 (PRDX4) Rabbit mAb (A9131) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

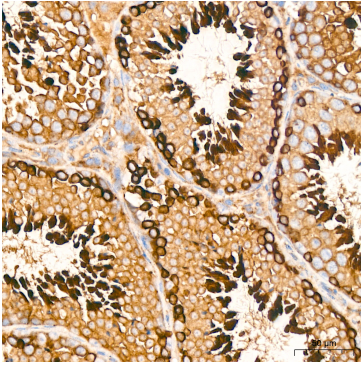


Immunohistochemistry analysis of Peroxiredoxin 4 (PRDX4) in paraffin-embedded human lung cancer tissue using Peroxiredoxin 4 (PRDX4) Rabbit mAb (A9131) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

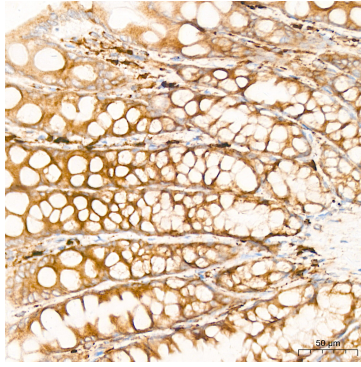


Immunohistochemistry analysis of Peroxiredoxin 4 (PRDX4) in paraffin-embedded human thyroid cancer tissue using Peroxiredoxin 4 (PRDX4) Rabbit mAb (A9131) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of Peroxiredoxin 4 (PRDX4) in paraffin-embedded mouse testis tissue using Peroxiredoxin 4 (PRDX4) Rabbit mAb (A9131) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Peroxiredoxin 4 (PRDX4) in paraffin-embedded rat colon tissue using Peroxiredoxin 4 (PRDX4) Rabbit mAb (A9131) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.