

Peroxiredoxin V Antibody (3F11)
Mouse Monoclonal Antibody
Catalog # ABV11155**Specification**

Peroxiredoxin V Antibody (3F11) - Product Information

Application	WB, ICC, E, IP
Primary Accession	P30044
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG 1
Calculated MW	22086

Peroxiredoxin V Antibody (3F11) - Additional Information**Gene ID** 25824

Positive Control	IP analysis : HeLa cell lysate. IHC staining : HeLa cells
Application & Usage	Western blot: 1:1000, IP: 1-2 µl, ICC: 20 µl/ml, ELISA.

Other Names

Peroxiredoxin 5, ACR1, AOEB116, B116, PLP, PMP20, PRDX6, PRXV, SBB110.

Target/Specificity

Peroxiredoxin V

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µl of antibody in HEPES with 0.15 M NaCl, 0.01 % BSA, 0.03 % sodium azide, and 50 % glycerol

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

Peroxiredoxin V Antibody (3F11) is for research use only and not for use in diagnostic or therapeutic procedures.

Peroxiredoxin V Antibody (3F11) - Protein Information

Name PRDX5 ([HGNC:9355](#))

Synonyms ACR1

Function

Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides and as sensor of hydrogen peroxide-mediated signaling events.

Cellular Location

[Isoform Mitochondrial]: Mitochondrion

Tissue Location

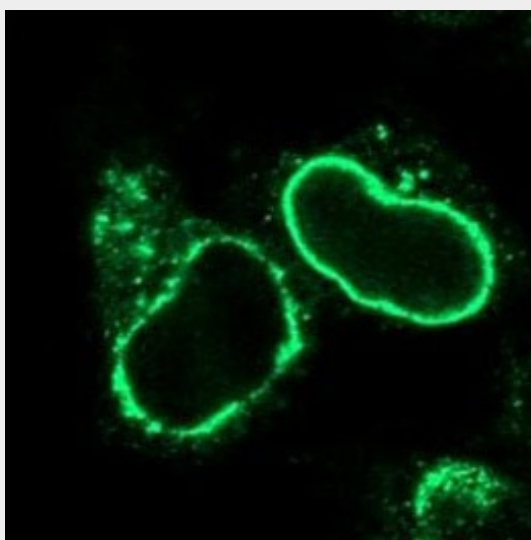
Widely expressed..

Peroxiredoxin V Antibody (3F11) - Protocols

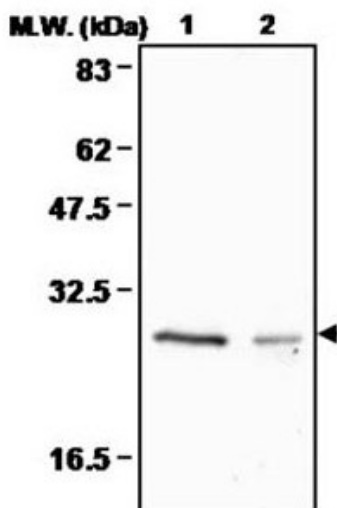
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Peroxiredoxin V Antibody (3F11) - Images



IHC staining of HeLa cells with Prx IV mAb.



IP analysis of HeLa cell lysate with Prx IV mAb. Lane 1: Input. Lane 2: IP sample

Peroxiredoxin V Antibody (3F11) - Background

Peroxiredoxin (Prx) is a growing peroxidase family, whose mammalian members have been known to connect with cell proliferation, differentiation, and apoptosis. Many isoforms (about 50 proteins), collected in accordance to the amino acid sequence homology, particularly amino-terminal region containing active site cysteine residue, and the thiol-specific antioxidant activity, distribute throughout all the kingdoms. Among them, mammalian Prx consists of 6 different members grouped into typical 2-Cys, atypical 2-Cys Prx, and 1-Cys Prx. Except Prx VI belonging to 1-Cys Prx subgroup, the other five 2-Cys Prx isotypes have the thioredoxin-dependent peroxidase (TPx) activity utilizing thioredoxin, thioredoxin reductase, and NADPH as a reducing system. Mammalian Prxs are 20 - 30 kDa in molecular size and vary in subcellular localization: Prx I, II, and VI in cytosol, Prx III in mitochondria, Prx IV in ER and secretion, Prx V showing complicated distribution including peroxisome, mitochondria and cytosol. Prx V is involved in reduction of hydrogen peroxide and alkyl hydroperoxides with reducing equivalents provided through the thioredoxin system. Involved in intracellular redox signaling.