

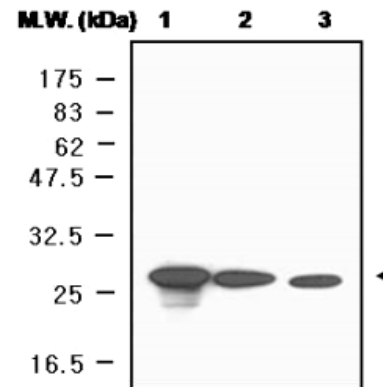
Peroxiredoxin VI (4A3) Monoclonal Antibody

ALTERNATE NAMES:	Peroxiredoxin 6, 1-Cys, aiPLA2, AOP2, NSGPx, p29, PRX.
CATALOG #:	6163-100
AMOUNT:	100 µl
HOST:	Mouse
ISOTYPE:	IgG1
IMMUNOGEN:	Recombinant human protein purified from E.coli.
PURIFICATION:	Ammonium sulphate precipitation
FORM:	Liquid
FORMULATION:	100 µl of antibody in HEPES with 0.15 M NaCl, 0.01 % BSA, 0.03 % sodium azide, and 50 % glycerol
SPECIES REACTIVITY:	Human, Mouse, Rat
STORAGE CONDITIONS:	Store for 1 year at -20°C from date of shipment. Avoid repeated freeze/thaw cycles.

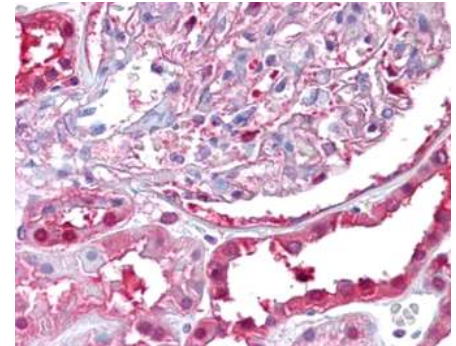
DESCRIPTION: Peroxiredoxin (Prx) is a growing peroxidase family, whose mammalian members have been known to connect with cell proliferation, differentiation, and apoptosis. Many isoforms (about 50 proteins), collected in accordance to the amino acid sequence homology, particularly amino-terminal region 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 VI is involved in redox regulation of the cell. Can reduce H₂O₂ and short chain organic, fatty acid, and phospholipid hydroperoxides. May play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury.

APPLICATION: Western blot: 1:2000, ELISA.

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



WB analysis of cell lysates with Prx V mAb. Lane 1: HeLa. Lane 2: Mouse lung, Lane 3: Rat lung



IHC staining of paraffin embedded human kidney

RELATED PRODUCTS:

- Peroxiredoxin I (9D2) Monoclonal Antibody (**Cat. No. 6159-100**)
- Peroxiredoxin II (1E8) Monoclonal Antibody (**Cat. No. 6159-100**)
- Peroxiredoxin III (12B) Monoclonal Antibody (**Cat. No. 6160-100**)
- Peroxiredoxin IV (3A1) Monoclonal Antibody (**Cat. No. 6161-100**)
- Peroxiredoxin V (3F11) Monoclonal Antibody (**Cat. No. 6162-100**)
- Human Recombinant PRDX 1 (**Cat. No. 6323-100**)
- Human Recombinant PRDX 2 (**Cat. No. 6319-100**)
- Human Recombinant PRDX 3 (**Cat. No. 6320-100**)
- Human Recombinant PRDX 4 (**Cat. No. 6324-100**)
- Human Recombinant PRDX 5 (**Cat. No. 6321-100**)
- Human Recombinant PRDX 6 (**Cat. No. 6322-100**)

FOR RESEARCH USE ONLY! Not to be used on humans.