Product Name: PRX III Rabbit Polyclonal Antibody

Catalog #: APRab16570



Summary

Production Name PRX III Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application IHC,WB,ELISA **Reactivity** Human,Mouse,Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Polyclonal Form Liquid

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

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Storage

Gene Name PRDX3

PRDX3; AOP1; Thioredoxin-dependent peroxide reductase; mitochondrial; Antioxidant

Alternative Names protein 1; AOP-1; HBC189; Peroxiredoxin III; Prx-III; Peroxiredoxin-3; Protein MER5

homolog

Gene ID 10935.0

P30048. The antiserum was produced against synthesized peptide derived from human

PRX III. AA range:44-93

Application

SwissProt ID

Dilution Ratio WB 1:500 - 1:2000.IHC-p:1:50-300 ELISA: 1:20000..

Molecular Weight 26kD

Product Name: PRX III Rabbit Polyclonal Antibody

Catalog #: APRab16570

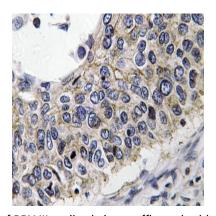


Background

This gene encodes a mitochondrial protein with antioxidant function. The protein is similar to the C22 subunit of Salmonella typhimurium alkylhydroperoxide reductase, and it can rescue bacterial resistance to alkylhydroperoxide in E. coli that lack the C22 subunit. The human and mouse genes are highly conserved, and they map to the regions syntenic between mouse and human chromosomes. Sequence comparisons with recently cloned mammalian homologs suggest that these genes consist of a family that is responsible for the regulation of cellular proliferation, differentiation and antioxidant functions. This family member can protect cells from oxidative stress, and it can promote cell survival in prostate cancer. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1, 3, 13 and 22. [provided by RefSeq, Oct 2014], catalytic activity: 2 R'-SH + ROOH = R'-S-S-R' + H(2)O + ROH., function: Involved in redox regulation of the cell. Protects radical-sensitive enzymes from oxidative damage by a radical-generating system. Acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol, miscellaneous: Irreversibly inactivated by overoxidation of Cys-108 (to Cys-SO(3)H) upon oxidative stress., miscellaneous: The active site is the redox-active Cys-108 oxidized to Cys-SOH. Cys-SOH rapidly reacts with Cys-229-SH of the other subunit to form an intermolecular disulfide with a concomitant homodimer formation. The enzyme may be subsequently regenerated by reduction of the disulfide by thioredoxin, similarity: Belongs to the ahpC/TSA family,, similarity: Contains 1 thioredoxin domain., subunit: Homodimer; disulfide-linked, upon oxidation (By similarity). Binds MAP3K13.,

Research Area

Image Data

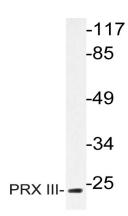


Immunohistochemistry analysis of PRX III antibody in paraffin-embedded human lung carcinoma tissue.

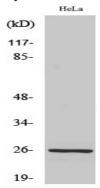
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

Product Name: PRX III Rabbit Polyclonal Antibody Catalog #: APRab16570





Western blot analysis of lysate from HeLa cells, using PRX III antibody.



Western Blot analysis of various cells using PRX III Polyclonal Antibody diluted at 1: 1000

Note

For research use only.