

产品名称: PRX III Rabbit Polyclonal Antibody
产品货号: AP Rab16570



产品概述 (Summary)

产品名称 (Production Name)	PRX III Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA,IP
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	PRDX3 PRDX3; AOP1; Thioredoxin-dependent peroxide reductase; mitochondrial;
别名 (Alternative Names)	Antioxidant protein 1; AOP-1; HBC189; Peroxiredoxin III; Prx-III; Peroxiredoxin-3; Protein MER5 homolog
基因 ID (Gene ID)	10935.0
蛋白 ID (SwissProt ID)	P30048.The antiserum was produced against synthesized peptide derived from human PRX III. AA range:44-93

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:50-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000,IP 1:50-1:200
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蛋白分子量 (Molecular Weight) 26kDa

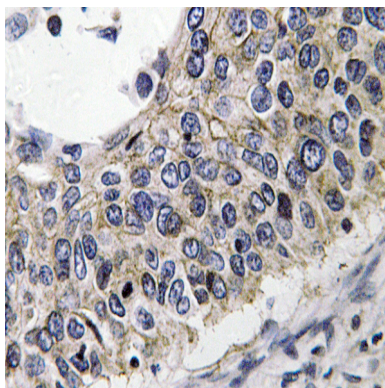
研究背景 (Background)

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: $2 \text{ R}'\text{-SH} + \text{ROOH} = \text{R}'\text{-S-S-R}' + \text{H}_2\text{O} + \text{ROH}$, 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,

研究领域 (Research Area)

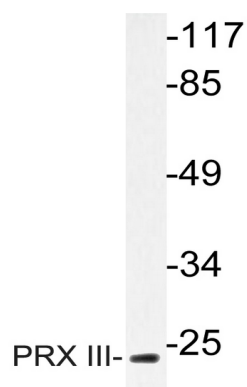
Neuroscience

图片 (Image Data)



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

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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

注意事项 (Note)

For research use only .