



## Rabbit Anti-Peroxiredoxin 3 antibody

SL1874R

<b>Product Name:</b>	Peroxiredoxin 3
<b>Chinese Name:</b>	硫氧还蛋白还原酶3抗体
<b>Alias:</b>	Antioxidant protein 1; AOP 1; AOP-1; AOP1; HBC189; MER5; MGC104387; MGC24293; mitochondrial; Peroxiredoxin III; Peroxiredoxin-3; PRDX3; PRDX3_HUMAN; PRO1748; Protein MER5 homolog; PRX III; Prx-III; PRX3; SP 22; SP-22; SP22; Thioredoxin dependent peroxide reductase mitochondrial; Thioredoxin-dependent peroxide reductase.
<b>文献引用</b> <b>PubMed</b> :	<b>Specific References(1)</b> SL1874R has been referenced in 1 publications. <b>[IF=2.04]</b> Gao, Hong, et al. "Comparative study of Hsp27, GSK3 $\beta$ , Wnt1 and PRDX3 in Hirschsprungs disease." International Journal of Experimental Pathology (2014). <b>WB;Human.</b> <a href="#">PubMed:24773279</a>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Horse,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	21kDa
<b>Cellular localization:</b>	cytoplasmic <b>Mitochondrion</b>
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human PRDX3:161-256/256
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>The Peroxiredoxin (Prdx, Prx, or Trx-Px) family of enzymes is a recently identified family of peroxidases found in free-living organisms. The six known isoforms (Prx1-6) play an important role in protecting lipids, enzymes and DNA against peroxides, such as hydrogen peroxide. The ubiquitously expressed peroxiredoxins have also been shown to play a role in apoptosis and cell differentiation. This is accomplished by the active cysteine of Prx reducing peroxides, which is then converted into a transient cysteine sulfenic acid or cysteine sulfinic acid. If Prx protection is inadequate against peroxidases, the resulting protein and DNA damage may result in neurological disease such as Alzheimer's or DNA damage leading to cancer.</p> <p><b>Function:</b> 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.</p> <p><b>Subunit:</b> Dodecameric ring assembled from homodimeric units; disulfide-linked, upon oxidation. The rings have an approximate diameter of 150 Å and a central hole of 70 Å. 3-5% of the rings are interlocked by pairs. Binds MAP3K13. Interacts with NEK6. Interacts with LRRK2.</p> <p><b>Subcellular Location:</b> Mitochondrion.</p> <p><b>Post-translational modifications:</b> Phosphorylated by LRRK2; phosphorylation reduces peroxidase activity.</p> <p><b>Similarity:</b> Belongs to the AhpC/TSA family. Contains 1 thioredoxin domain.</p> <p><b>SWISS:</b> P30048</p> <p><b>Gene ID:</b> 10935</p> <p><b>Database links:</b> <a href="#">Entrez Gene: 281998</a>Cow</p>

[Entrez Gene: 10935](#)Human

[Entrez Gene: 11757](#)Mouse

[Entrez Gene: 64371](#)Rat

[Olim: 604769](#)Human

[SwissProt: P35705](#)Cow

[SwissProt: P30048](#)Human

[SwissProt: P20108](#)Mouse

[SwissProt: Q9Z0V6](#)Rat

[Unigene: 523302](#)Human

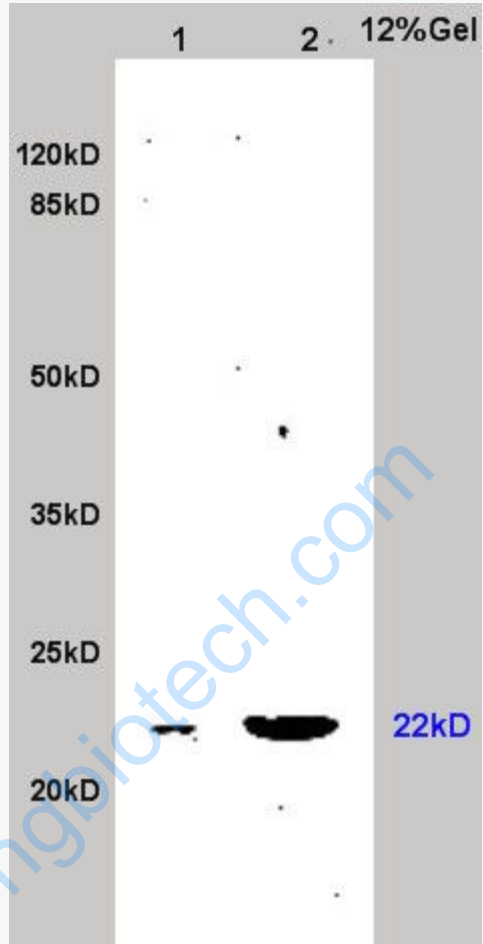
[Unigene: 29821](#)Mouse

[Unigene: 2011](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Protein:

brain(rat) lysates at 30ug;

heart(rat) lysates at 30ug;

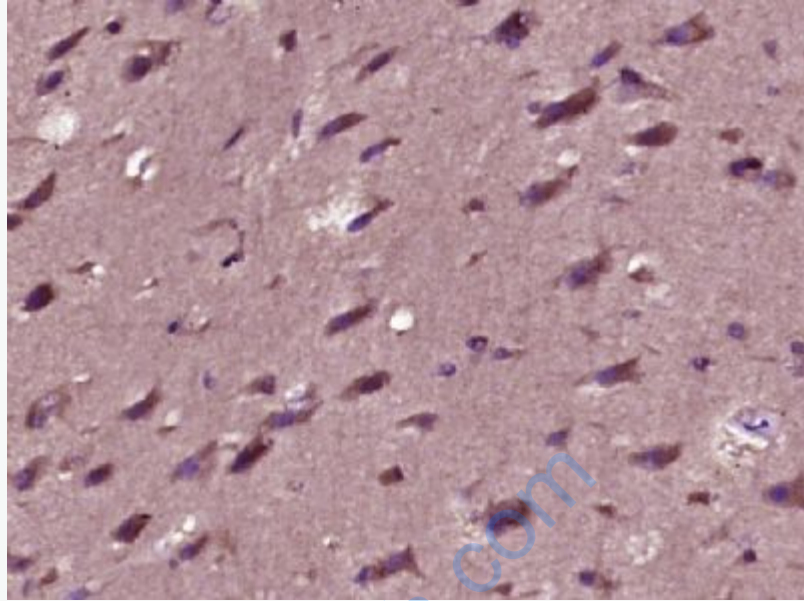
Primary: Anti-PRDX3 (SL1874R) at 1:200;

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(SL1874R) at 1: 3000;

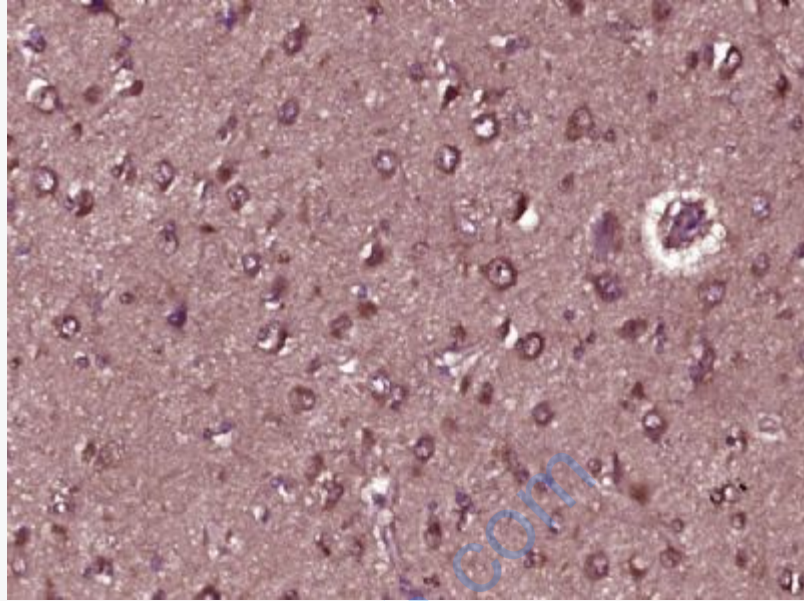
ECL excited the fluorescence;

Predicted band size : 20kD,28kD

Observed band size : 22kD



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Peroxisome proliferator-activated receptor 3) Polyclonal Antibody, Unconjugated (SL1874R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Peroxiredoxin 3) Polyclonal Antibody, Unconjugated (SL1874R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.