



Rabbit Anti-2 Cys Peroxiredoxin antibody

SL7356R

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| Product Name: | 2 Cys Peroxiredoxin |
| Chinese Name: | 硫氧还蛋白还原酶抗体 |
| Alias: | Antioxidant enzyme; Peroxiredoxin 1; Peroxiredoxin 2; Peroxiredoxin 3; Peroxiredoxin 4; Peroxiredoxin 5; Peroxiredoxin 5 mitochondrial; PLP; PMP20; PRDX1; PRDX2; PRDX3; PRDX4; PRDX5; PRX V; Thioredoxin reductase. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Pig,Horse, |
| Applications: | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 17kDa |
| Cellular localization: | cytoplasmicThe cell membraneMitochondrion |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human 2 Cys Peroxiredoxin:141-214/214 |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | 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. |
| PubMed: | PubMed |
| Product Detail: | Peroxiredoxin (Prx) is a growing peroxidase family whose mammalian members are involved in cell proliferation, differentiation, and apoptosis. There are many isoforms(about 50 proteins), known on the basis of amino acid sequence homology, particularly the amino-terminal region containing an active site cysteine residue. The |

thiol-specific antioxidant activity is distributed 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 PrxVI belonging to the 1 Cys Prx subgroup, the other five 2 Cys Prx isotypes share the thioredoxin dependent peroxidase (TPx) activity utilizing thioredoxin, thioredoxin reductase, and NADPH as a reducing system. Mammalian Prxs are 20–30 kilodaltons in molecular size and vary in subcellular localization: PrxI, II and VI in cytosol, PrxIII in mitochondria, PrxIV in ER and secretion, PrxV showing complicated distribution including peroxisome, mitochondria and cytosol.

Subcellular Location:

Cytoplasmic.

SWISS:

N/A

Gene ID:

N/A

Database links:

[Entrez Gene: 10549](#) Human

[Entrez Gene: 10935](#) Human

[Entrez Gene: 5052](#) Human

[Entrez Gene: 7001](#) Human

[Entrez Gene: 113898](#) Rat

[SwissProt: P30044](#) Human

[SwissProt: P30048](#) Human

[SwissProt: P32119](#) Human

[SwissProt: Q06830](#) Human

[SwissProt: Q13162](#) Human

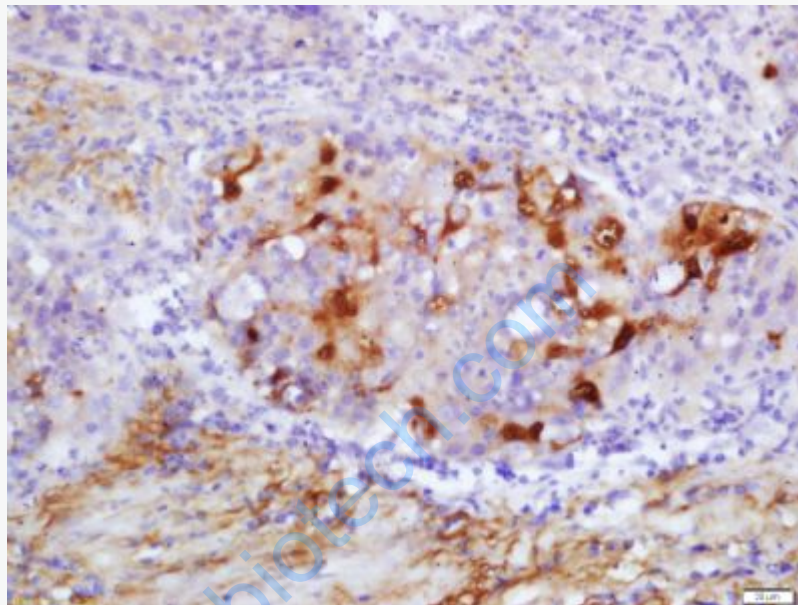
[SwissProt: Q9R063](#) Rat

[Unigene: 502823](#) Human

[Unigene: 2944](#) Rat

Important Note:

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



Picture:

Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-2 Cys Peroxiredoxin Polyclonal Antibody,

Unconjugated(SL7356R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining