

## Anti-GPX1 Antibody (4U620)

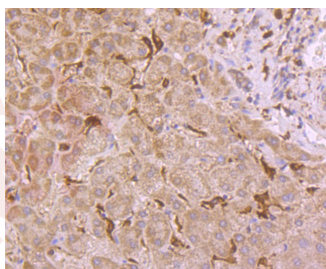
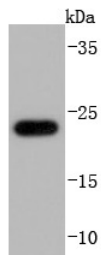
### Product Details

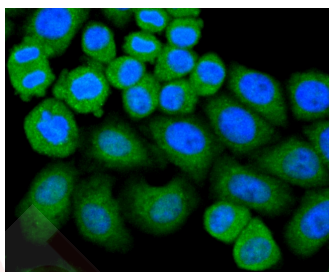
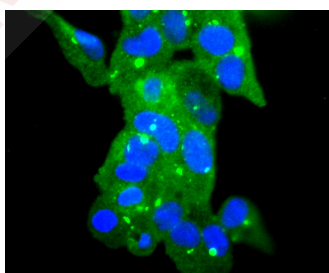
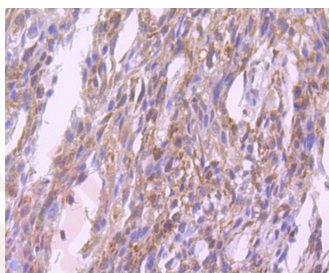
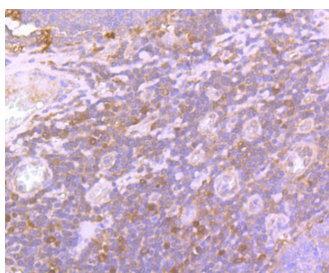
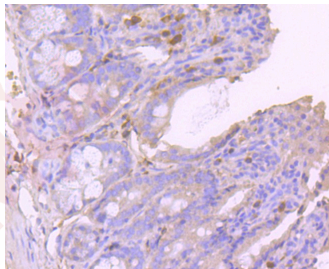
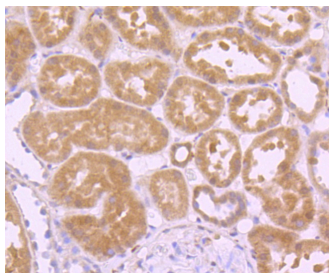
Ig Type:	IgG
Reactivity:	Human,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 22 kDa.
Clone:	4U620
Purification:	ProA affinity purified

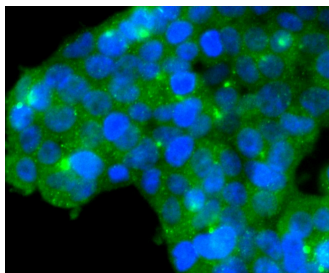
### Applications

#### Verified Activity:

1. Western blot analysis of Glutathione Peroxidase 1 on THP-1 cells lysates using anti-Glutathione Peroxidase 1 antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Glutathione Peroxidase 1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Glutathione Peroxidase 1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-Glutathione Peroxidase 1 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Glutathione Peroxidase 1 antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Glutathione Peroxidase 1 antibody. Counter stained with hematoxylin.
7. ICC staining Glutathione Peroxidase 1 in 293 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining Glutathione Peroxidase 1 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. ICC staining Glutathione Peroxidase 1 in 293T cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.







Application: ICC/IF,IHC,IP,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200

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### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P07203

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### Research Background

Glutathione peroxidase (GPx) enzymes are generally selenium-containing tetrameric glycoproteins that help prevent lipid peroxidation of cell membranes. GPx enzymes reduce lipid hydroperoxides to alcohols, and reduce free hydrogen peroxide to water. GPx members are among the few proteins known in higher vertebrates to contain selenocysteine, which occurs at the active site of glutathione peroxidase and is coded by the nonsense (stop) codon TGA. There are eight GPx homologs (GPx-1-8). GPx-1, Gpx-2 and Gpx-3 exist as homotetramers. Gpx-4 has a high tendency to form high molecular weight oligomers. GPx-1 plays an important role in the antioxidant defense of the vascular wall and neural cells in response to oxidative stress. GPx-2 is the major isoform in the lungs and its basal or inducible expression is dependent on Nrf2. GPx-3 is under regulation by hypoxic stress and the expression and deficiency of GPx-3 is associated with cardiovascular disease and stroke. GPx-5 is selenium-independent; it is bound to the acrosome of sperm, where it may protect sperm from premature acrosome reaction in the epididymis.

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