

**KD-Validated Anti-GPX1 Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1530****Specification****KD-Validated Anti-GPX1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">P07203</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 22 kDa , observed, 22 kDa
Gene Name	KDa
Aliases	GPX1 GPX1; Glutathione Peroxidase 1; Cellular Glutathione Peroxidase; Selenoprotein GPX1; EC 1.11.1.9; GSHPx-1; EC 1.11.1; GSHPX1; GPx-1; GPXD
Immunogen	A synthesized peptide derived from human GPX1

**KD-Validated Anti-GPX1 Rabbit Monoclonal Antibody - Additional Information**

Gene ID 2876

**Other Names**

Glutathione peroxidase 1, GPx-1, GSHPx-1, 1.11.1.9, Cellular glutathione peroxidase, Phospholipid-hydroperoxide glutathione peroxidase GPX1, 1.11.1.12, GPX1 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=4553](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=4553))  
target="\_blank">HGNC:4553</a>)

**KD-Validated Anti-GPX1 Rabbit Monoclonal Antibody - Protein Information**Name GPX1 ([HGNC:4553](#))**Function**

Catalyzes the reduction of hydroperoxides in a glutathione- dependent manner thus regulating cellular redox homeostasis (PubMed: [11115402](http://www.uniprot.org/citations/11115402), PubMed: [36608588](http://www.uniprot.org/citations/36608588)). Can reduce small soluble hydroperoxides such as H<sub>2</sub>O<sub>2</sub>, cumene hydroperoxide and tert-butyl hydroperoxide, as well as several fatty acid-derived hydroperoxides (PubMed: [11115402](http://www.uniprot.org/citations/11115402), PubMed: [36608588](http://www.uniprot.org/citations/36608588)). In platelets catalyzes the reduction of 12-hydroperoxyeicosatetraenoic acid, the primary product of the arachidonate 12-lipoxygenase pathway (PubMed: [11115402](http://www.uniprot.org/citations/11115402))  
target="\_blank">11115402</a>).

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:P11352}. Mitochondrion {ECO:0000250|UniProtKB:P11352}

## Tissue Location

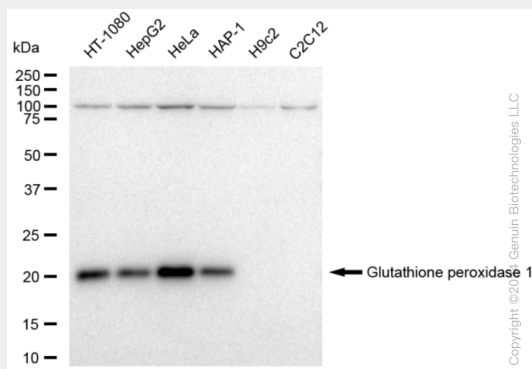
Expressed in platelets (at protein level).

## KD-Validated Anti-GPX1 Rabbit Monoclonal Antibody - Protocols

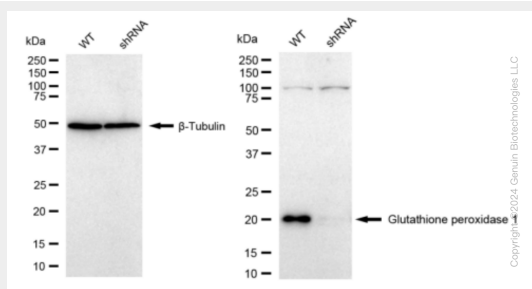
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

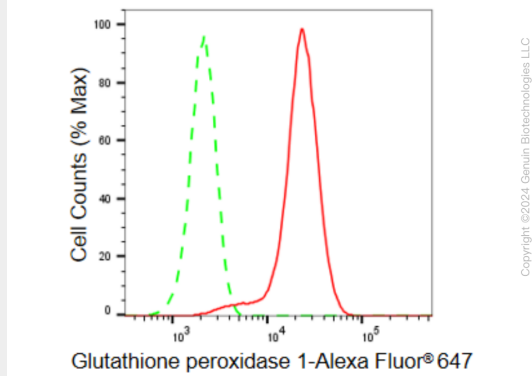
## KD-Validated Anti-GPX1 Rabbit Monoclonal Antibody - Images



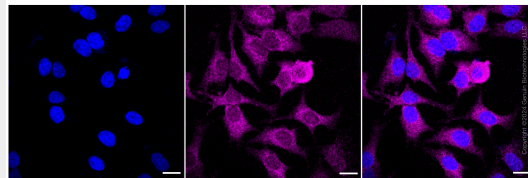
Western blotting analysis using anti-Glutathione peroxidase 1 antibody (Cat#AGI1530). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Glutathione peroxidase 1 antibody (Cat#AGI1530, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Glutathione peroxidase 1 antibody (Cat#AGI1530). Glutathione peroxidase 1 expression in wild type (WT) and Glutathione peroxidase 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Glutathione peroxidase 1 antibody (Cat#AGI1530, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Glutathione peroxidase 1 expression in HeLa cells using Glutathione peroxidase 1 antibody (Cat#AGI1530, 1:2,000). Green, isotype control; red, Glutathione peroxidase 1.



Immunocytochemical staining of HeLa cells with anti-Glutathione peroxidase 1 antibody (Cat#AGI1530, 1:1,000). Nuclei were stained blue with DAPI; Glutathione peroxidase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.