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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	P07203
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 22 kDa , observed, 22 kDa KDa**
Gene Name	**GPX1**
Aliases	**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 (HGNC:4553)

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, PubMed:36608588). Can reduce small soluble hydroperoxides such as H2O2, cumene hydroperoxide and tert-butyl hydroperoxide, as well as several fatty acid-derived hydroperoxides (PubMed:11115402, PubMed:36608588). In platelets catalyzes the reduction of 12-hydroperoxyeicosatetraenoic acid, the primary product of the arachidonate 12-lipoxygenase pathway (PubMed:11115402).

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

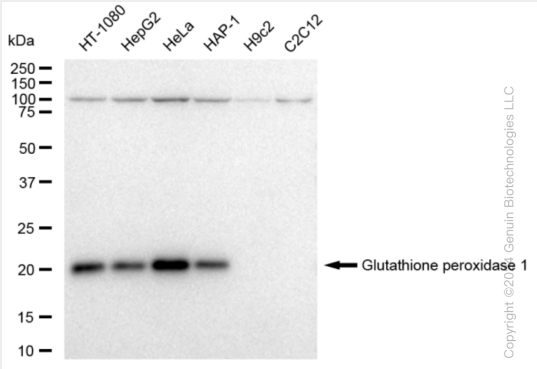
Tissue Location
Expressed in platelets (at protein level).

KD-Validated Anti-GPX1 Rabbit Monoclonal Antibody - Protocols

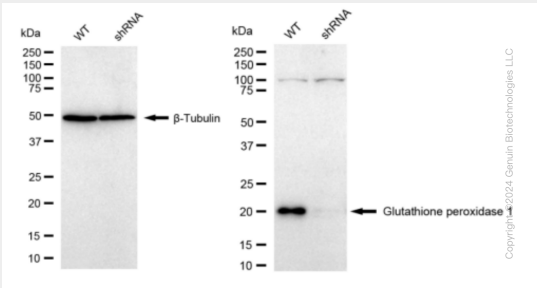
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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.

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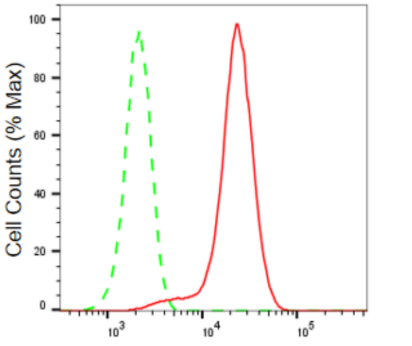
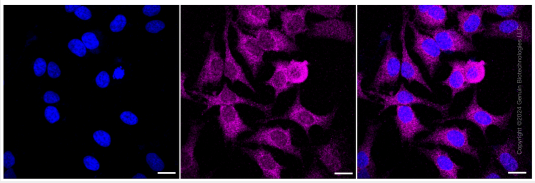


Flow cytometric analysis of Glutathione peroxidase 1 expression in HeLa cells using Glutathione peroxidase 1 antibody (Cat#AGI1530, 1:2,000). Green, isotype control; red, Glutathione peroxidase 1.



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.