

KO-Validated Anti-GSTO1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI2431

Specification

KO-Validated Anti-GSTO1 Rabbit Monoclonal Antibody - Product Information

Application	WB, FC, ICC
Primary Accession	P78417
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 28 kDa; observed, 28 kDa kDa
Gene Name	GSTO1
Aliases	GSTO1; Glutathione S-Transferase Omega 1; GSTTLP28; P28; Glutathione-Dependent Dehydroascorbate Reductase; Glutathione S-Transferase Omega 1-1; Glutathione S-Transferase Omega-1; S-(Phenacyl)Glutathione Reductase; Monomethylarsonic Acid Reductase; MMA(V) Reductase; EC 2.5.1.18; GSTO 1-1; SPG-R; Epididymis Secretory Protein Li 21; Glutathione-S-Transferase Like; EC 1.20.4.2; EC 1.8.5.1; HEL-S-21; GSTTLP28; GSTO-1
Immunogen	A synthesized peptide derived from human GSTO1

KO-Validated Anti-GSTO1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	9446
Other Names	Glutathione S-transferase omega-1, GSTO-1, 2.5.1.18, Glutathione S-transferase omega 1-1, GSTO 1-1, Glutathione-dependent dehydroascorbate reductase, 1.8.5.1, Monomethylarsonic acid reductase, MMA(V) reductase, 1.20.4.2, S-(Phenacyl)glutathione reductase, SPG-R, GSTO1, GSTTLP28

KO-Validated Anti-GSTO1 Rabbit Monoclonal Antibody - Protein Information

Name GSTO1

Synonyms GSTTLP28

Function

Exhibits glutathione-dependent thiol transferase and dehydroascorbate reductase activities. Has S-(phenacyl)glutathione reductase activity. Also has glutathione S-transferase activity. Participates in the biotransformation of inorganic arsenic and reduces monomethylarsonic acid (MMA) and dimethylarsonic acid.

Cellular Location
Cytoplasm, cytosol.

Tissue Location

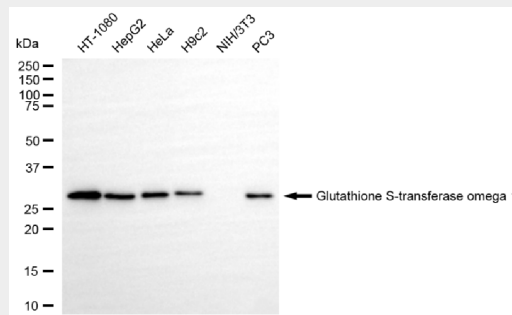
Ubiquitous. Highest expression in liver, pancreas, skeletal muscle, spleen, thymus, colon, blood leukocyte and heart. Lowest expression in brain, placenta and lung.

KO-Validated Anti-GSTO1 Rabbit Monoclonal Antibody - Protocols

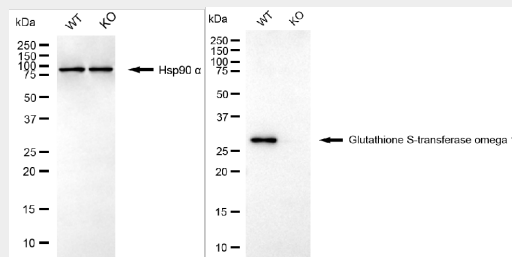
Provided below are standard protocols that you may find useful for product applications.

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

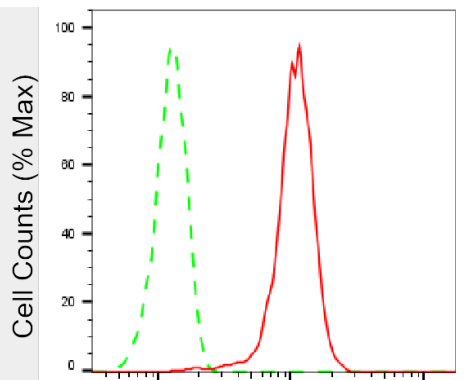
KO-Validated Anti-GSTO1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-glutathione S-transferase omega 1 antibody (Cat#AGI2431). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-glutathione S-transferase omega 1 antibody (Cat#AGI2431, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



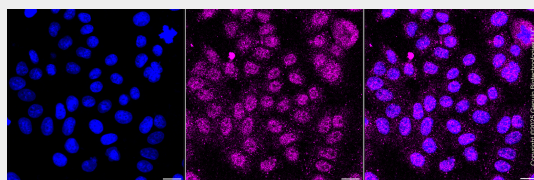
Western blotting analysis using anti-glutathione S-transferase omega 1 antibody (Cat#AGI2431). Glutathione S-transferase omega 1 expression in wild type (WT) and glutathione S-transferase omega 1 (GSTO1) knockout (KO) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-glutathione S-transferase omega 1 antibody (Cat#AGI2431, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Glutathione S-transferase omega 1-
Alexa Fluor® 647

Flow cytometric analysis of Glutathione S-transferase omega 1 expression in HepG2 cells using anti-Glutathione S-transferase omega 1 antibody (Cat#AGI2431, 1:2,000). Green, isotype control; red, Glutathione S-transferase omega 1.



Immunocytochemical staining of HepG2 cells with anti-Glutathione S-transferase omega 1 antibody (Cat#AGI2431, 1:1,000). Nuclei were stained blue with DAPI; Glutathione S-transferase omega 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.