10320 Camino Santa Fe, Suite G
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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.

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Cellular Location
Cytoplasm, cytosol.

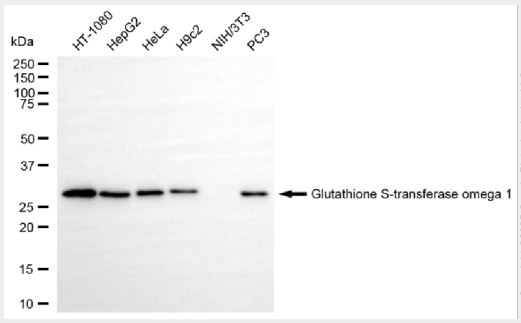
Tissue Location
Ubiquitous. Highest expression in liver, pancreas, skeletal muscle, spleen, thymus, colon, blood leukocyte and heart Lowest expression in brain, placenta and lung

KO-Validated Anti-GSTO1 Rabbit Monoclonal Antibody - Protocols

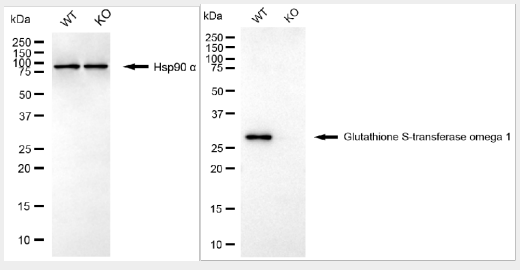
Provided below are standard protocols that you may find useful for product applications.

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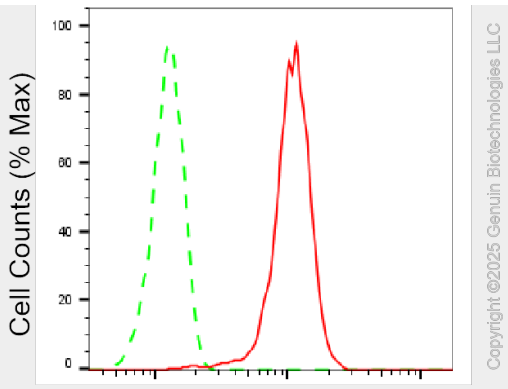
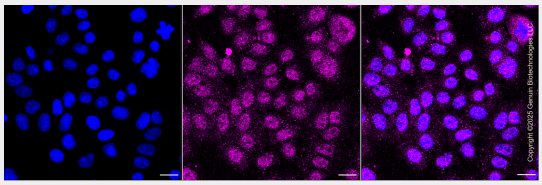


Glutathione S-transferase omega 1-
Alexa Fluor® 647

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.