10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# GSTO1 Antibody (Center)
**Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP2930C**

## Specification

### GSTO1 Antibody (Center) - Product Information

| | |
|---|---|
| Application | **WB, IHC-P, FC,E** |
| Primary Accession | P78417 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **27566** |
| Antigen Region | **126-155** |

### GSTO1 Antibody (Center) - Additional Information

**Gene ID** 9446

**Other Names**
Glutathione S-transferase omega-1, GSTO-1, Glutathione S-transferase omega 1-1, GSTO 1-1, Glutathione-dependent dehydroascorbate reductase, Monomethylarsonic acid reductase, MMA(V) reductase, S-(Phenacyl)glutathione reductase, SPG-R, GSTO1, GSTTLP28

**Target/Specificity**
This GSTO1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 126-155 amino acids from the Central region of human GSTO1.

**Dilution**
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
GSTO1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### GSTO1 Antibody (Center) - Protein Information

**Name** GSTO1

**Synonyms** GSTTLP28

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

**Cellular Location**
Cytoplasm, cytosol.

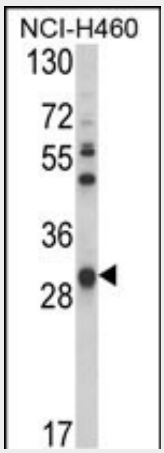
**Tissue Location**
Ubiquitous. Highest expression in liver, pancreas, skeletal muscle, spleen, thymus, colon, blood leukocyte and heart Lowest expression in brain, placenta and lung

## GSTO1 Antibody (Center) - Protocols

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

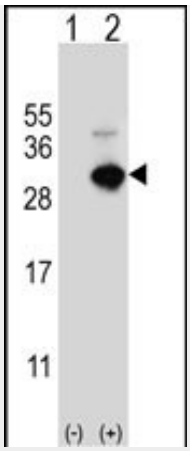
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## GSTO1 Antibody (Center) - Images

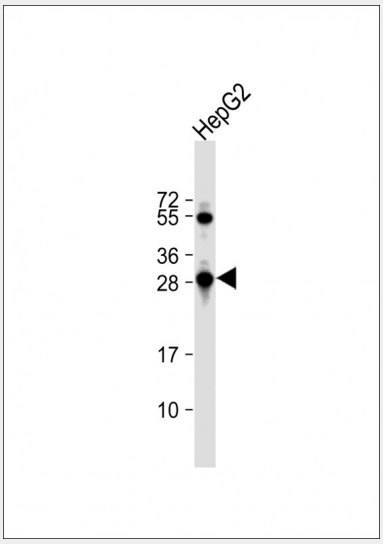



Western blot analysis of GSTO1 Antibody (Center) (Cat. #AP2930c) in NCI-H460 cell line lysates (35ug/lane). GSTO1 (arrow) was detected using the purified Pab.

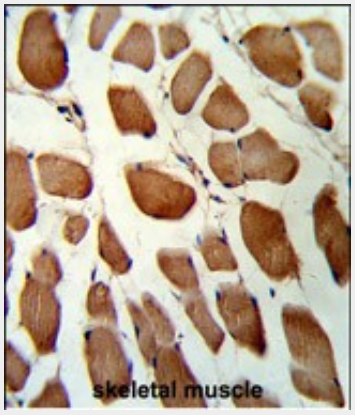
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Western blot analysis of GSTO1 (arrow) using rabbit polyclonal GSTO1 Antibody (Center) (Cat. #AP2930c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the GSTO1 gene.

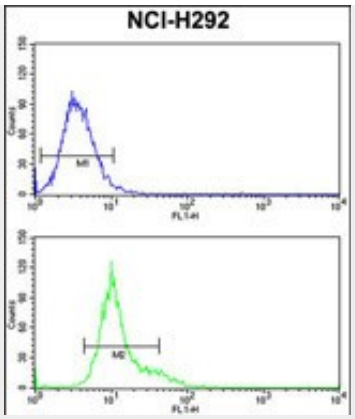



Anti-GSTO1 Antibody (Center) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa Blocking/Dilution buffer: 5% NFDM/TBST.




Formalin-fixed and paraffin-embedded human skeletal muscle reacted with GSTO1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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GSTO1 Antibody (Center) (Cat. #AP2930c) flow cytometry analysis of NCI-H292 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## GSTO1 Antibody (Center) - Background

GSTO1 is a member of the theta class glutathione S-transferase-like (GSTTL) protein family. In mouse, this protein acts as a small stress response protein, likely involved in cellular redox homeostasis.

## GSTO1 Antibody (Center) - References

Wang,Y.H., et.al., Toxicol. Appl. Pharmacol. 241 (1), 111-118 (2009)