

## **GSTO1 Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a partial recombinant GSTO1.

Catalog # AT2282a

### **Specification**

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#### **GSTO1 Antibody (monoclonal) (M01) - Product Information**

Application	IP, WB, E
Primary Accession	<a href="#">P78417</a>
Other Accession	<a href="#">NM_004832</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	27566

#### **GSTO1 Antibody (monoclonal) (M01) - 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**

GSTO1 (NP\_004823, 121 a.a. ~ 209 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

##### **Dilution**

WB~~1:500~1000

##### **Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

##### **Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

##### **Precautions**

GSTO1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

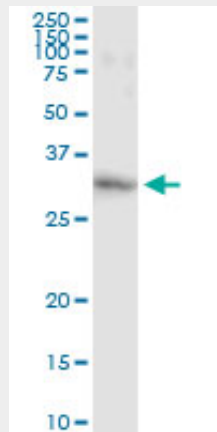
#### **GSTO1 Antibody (monoclonal) (M01) - Protocols**

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

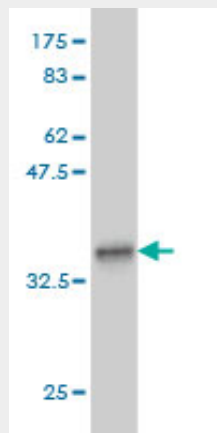
- [Western Blot](#)
- [Blocking Peptides](#)

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

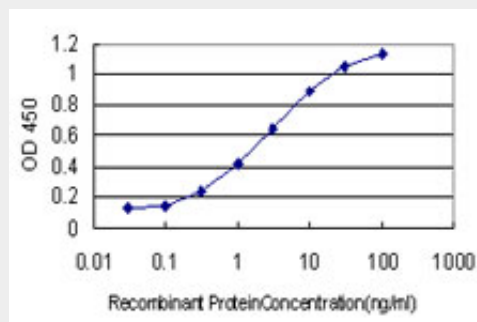
**GSTO1 Antibody (monoclonal) (M01) - Images**



Immunoprecipitation of GSTO1 transfected lysate using anti-GSTO1 monoclonal antibody and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with GSTO1 MaxPab rabbit polyclonal antibody.



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.53 KDa) .



Detection limit for recombinant GST tagged GSTO1 is approximately 0.03ng/ml as a capture antibody.

### **GSTO1 Antibody (monoclonal) (M01) - Background**

The protein encoded by this gene is an omega class glutathione S-transferase (GST) with glutathione-dependent thiol transferase and dehydroascorbate reductase activities. GSTs are involved in the metabolism of xenobiotics and carcinogens. The encoded protein acts as a homodimer and is found in the cytoplasm. Three transcript variants encoding different isoforms have been found for this gene.

### **GSTO1 Antibody (monoclonal) (M01) - References**

Polymorphisms in Glutathione S-Transferase Omega-1 Gene and Increased Risk of Sporadic Alzheimer Disease. Capurso C, et al. Rejuvenation Res, 2010 Sep 6. PMID 20818931. Association of genetic variation in cystathionine-beta-synthase and arsenic metabolism. Porter KE, et al. Environ Res, 2010 Aug. PMID 20670920. Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. Arsenic induces DNA damage in environmentally exposed Mexican children and adults. Influence of GSTO1 and AS3MT polymorphisms. Sampayo-Reyes A, et al. Toxicol Sci, 2010 Sep. PMID 20547570. Genetic polymorphism of As3MT and delayed urinary DMA excretion after organic arsenic intake from oyster ingestion. Hwang YH, et al. J Environ Monit, 2010 Jun. PMID 20532380.