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Tel: 858.875.1900 Fax: 858.622.0609

GSTO1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant GSTO1.

Catalog # AT2282a

Specification

GSTO1 Antibody (monoclonal) (M01) - Product Information

Application	**IP, WB, E**
Primary Accession	P78417
Other Accession	NM_004832
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

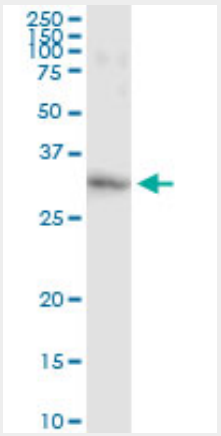
Target/Specificity
GSTO1 (NP_004823, 121 a.a. ~ 209 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

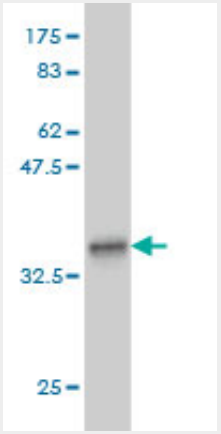
Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

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.



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) .

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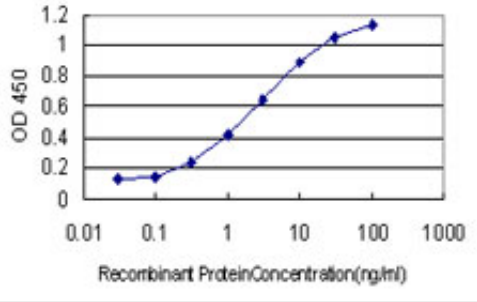
GSTO1 Antibody (monoclonal) (M01) - Protocols

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

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



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 Thiazolinedinedione-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.