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

GSTO1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant GSTO1.
Catalog # AT2282a

Product Information

Application	WB, IP, E
Primary Accession	P78417
Other Accession	NM_004832
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3D9
Calculated MW	27566

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 IP~~N/A E~~N/A
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.

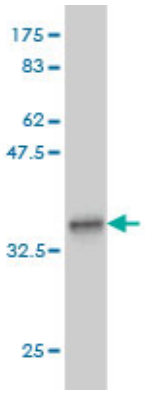
Background

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.

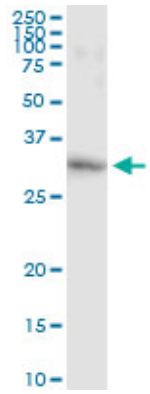
References

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.

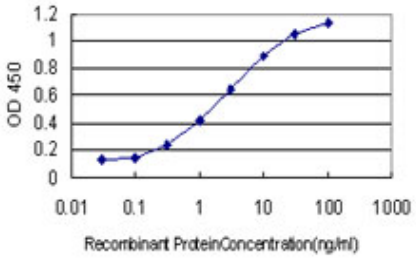
Images



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



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



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.