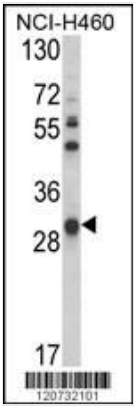
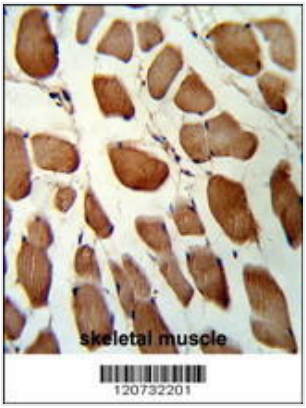
GSTO1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

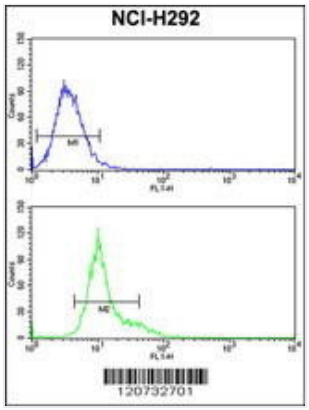
Product Name	GSTO1, Polyclonal Antibody
Full Product Name	GSTO1, ID (Glutathione S-transferase omega-1, GSTO 1-1, GSTTLP28) (MaxLight 750)
Product Gene Name	anti-GSTO1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human GSTO1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	27.5 kDa (241aa), confirmed by MALDI-TOF.
OMIM	605482
3D Structure	ModBase 3D Structure for P78417
Immunogen	Synthetic peptide selected from the center region of human GSTO1 (KLH).
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-GSTO1 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-GSTO1 antibody	Western Blot (WB), FLISA
Application Notes for anti-GSTO1 antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-GSTO1 antibody	MBS6478350 is an antibody targeting GSTO1. Also known as GSTO1, ID (Glutathione S-transferase omega-1, GSTO 1-1, GSTTLP28) (MaxLight 750). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-GSTO1 antibody	1. Wang, Y.H., et.al., Toxicol. Appl. Pharmacol. 241(1), 111-118 (2009).
Other Notes	Small volumes of anti-GSTO1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



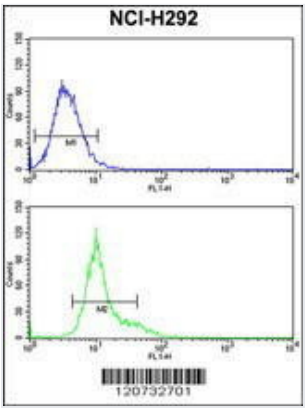
Western Blot (WB) of anti-GSTO1 antibody
Western blot analysis of GSTO1 Antibody (Center) in NCI-H460 cell line lysates (35ug/lane). GSTO1 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-GSTO1 antibody
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.



Flow Cytometry (FC/FACS) of anti-GSTO1 antibody
GSTO1 Antibody (Center) 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.



Western Blot (WB) of anti-GSTO1 antibody
Western blot analysis of GSTO1 (arrow) using rabbit polyclonal GSTO1 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the GSTO1 gene.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GSTO1. It may not necessarily be applicable to this product.

NCBI GI #	4758484
NCBI GeneID	9446
NCBI Accession #	NP_004823
UniProt Primary Accession #	P78417
UniProt Secondary Accession #	Q5TA03; Q7Z3T2; D3DRA3; F5H7H0
UniProt Related Accession #	P78417
GenBank Nucleotide #	NM_004832.2
NCBI Official Full Name	glutathione S-transferase omega-1 isoform 1
NCBI Official Synonym Full Names	glutathione S-transferase omega 1
NCBI Official Symbol	GSTO1
NCBI Official Synonym Symbols	P28; SPG-R; GSTO 1-1; GSTTLp28; HEL-S-21
UniProt Protein Name	Glutathione S-transferase omega-1

UniProt Synonym Protein Names	Glutathione S-transferase omega 1-1; GSTO 1-1; Glutathione-dependent dehydroascorbate reductase (EC:1.8.5.1); Monomethylarsonic acid reductase (EC:1.20.4.2); MMA(V) reductase; S-(Phenacyl)glutathione reductase; SPG-R
Protein Family	Glutathione S-transferase
UniProt Gene Name	GSTO1
UniProt Synonym Gene Names	GSTTLP28; GSTO-1; GSTO 1-1; MMA(V) reductase; SPG-R
UniProt Entry Name	GSTO1_HUMAN
NCBI Protein Information	glutathione S-transferase omega-1
NCBI Summary for GSTO1	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. [provided by RefSeq, Jul 2010]
UniProt Comments for GSTO1	GSTO1: 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. Belongs to the GST superfamily. Omega family. Protein type: EC 1.8.5.1; EC 2.5.1.18; Transferase; Xenobiotic Metabolism - metabolism by cytochrome P450; EC 1.20.4.2; Other Amino Acids Metabolism - glutathione; Xenobiotic Metabolism - drug metabolism - cytochrome P450 Chromosomal Location of Human Ortholog: 10q25.1 Cellular Component: cytoplasm; cytosol Molecular Function: protein binding; glutathione transferase activity; glutathione dehydrogenase (ascorbate) activity; methylarsonate reductase activity; oxidoreductase activity Biological Process: positive regulation of skeletal muscle contraction via regulation of the release of sequestered calcium ion; xenobiotic metabolic process; L-ascorbic acid metabolic process; xenobiotic catabolic process
Research Articles on GSTO1	**1.** GSTO1*C is linked to the pre-stage of Alzheimer's disease; rs4925 could be a genetic marker for cognitive impairment
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/gsto1/6478350