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Anti-GSTO1 (MOUSE) Monoclonal Antibody
GSTO1 Antibody
Catalog # ASR4226

Specification

Anti-GSTO1 (MOUSE) Monoclonal Antibody - Product Information

Host	**Mouse**
Conjugate	**Unconjugated**
Target Species	**Mouse**
Reactivity	**Human**
Clonality	**Monoclonal**
Application	**WB, IHC, E, IP, I, LCI**
Application Note	**Anti-GSTO1 antibody has been tested by ELISA and Western Blot. Suitable for most immunological techniques requiring high titer binding and lot-to-lot consistency. Specific conditions for reactivity should be optimized by the end user.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**This Protein A purified antibody was prepared by repeated immunizations in mice with O1 Protein**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-GSTO1 (MOUSE) Monoclonal Antibody - Additional Information

Gene ID 9446

Purity
This product is purified from roller bottle culture by Protein A chromatography followed by extensive dialysis against the buffer stated above. Reacts specifically with O1 protein. Cross reactivity from other sources has not been determined.

Storage Condition
Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-GSTO1 (MOUSE) Monoclonal Antibody - 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.

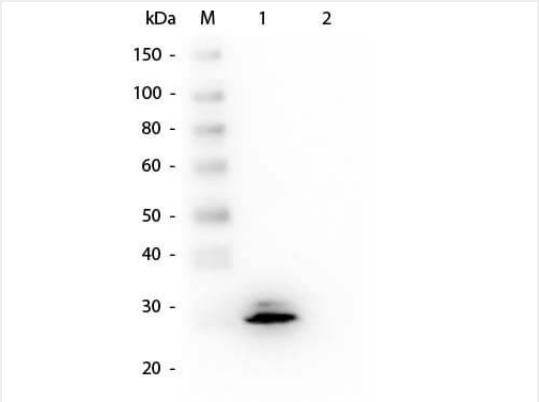
Tissue Location
Ubiquitous. Highest expression in liver, pancreas, skeletal muscle, spleen, thymus, colon, blood leukocyte and heart Lowest expression in brain, placenta and lung

Anti-GSTO1 (MOUSE) Monoclonal Antibody - 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

Anti-GSTO1 (MOUSE) Monoclonal Antibody - Images



Western Blot of Mouse anti-GSTO1 Monoclonal Antibody. Lane 1: Recombinant GSTO1 protein. Lane 2: GST (p/n 000-001-200). Load: 50 ng per lane. Primary antibody: Mouse anti-GSTO1 Monoclonal Antibody at 1:1,000 overnight at 4°C. Secondary antibody: HRP Mouse Secondary Antibody (610-403-C46) at 1:40,000 for 30 min at RT. Block: (p/n MB-070) for 30 min at RT. Predicted/Observed size: 27 kDa, 27 kDa for GSTO1.

Anti-GSTO1 (MOUSE) Monoclonal Antibody - Background

Rockland produces a wide range of human GST antibodies in our laboratories. Select appropriate GST antibodies for your research by isotype, epitope, applications and species reactivity. There are 22 members of the human GST family of proteins. GST is responsible for the conjugation of reduced

glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. The amino acid sequence GST is highly conserved in most organisms including mammals. GSTs proteins are typically homodimeric, with both heterologous GST dimers have been observed. GST monomers have an average molecular weight of approximately 25-28 kDa in size. Note a different form of non-human GST (Glutathione-S-Transferase) is used as a protein expression tag commonly in molecular biology applications. All anti-GST antibodies my not react with recombinant GST-fusion proteins.