

# Anti-GSTZ1 (MOUSE) Monoclonal Antibody

GSTZ1 Antibody Catalog # ASR4227

#### Specification

## Anti-GSTZ1 (MOUSE) Monoclonal Antibody - Product Information

Host Conjugate Target Species Reactivity Clonality Application Application Note	Mouse Unconjugated Mouse Human Monoclonal WB, IHC, E, IP, I, LCI Anti-GSTZ1 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 Z1 Protein
Preservative	0.01% (w/v) Sodium Azide

## Anti-GSTZ1 (MOUSE) Monoclonal Antibody - Additional Information

Gene ID 2954

**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 Z1 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-GSTZ1 (MOUSE) Monoclonal Antibody - Protein Information

Name GSTZ1



### Synonyms MAAI

#### Function

Bifunctional enzyme showing minimal glutathione-conjugating activity with ethacrynic acid and 7-chloro-4-nitrobenz-2-oxa-1,3- diazole and maleylacetoacetate isomerase activity. Also has low glutathione peroxidase activity with T-butyl and cumene hydroperoxides. Is able to catalyze the glutathione dependent oxygenation of dichloroacetic acid to glyoxylic acid.

Cellular Location Cytoplasm.

**Tissue Location** 

Mostly expressed in liver followed by kidney, skeletal muscle and brain. Also expressed in melanocytes, synovium, placenta, breast and fetal liver and heart

#### Anti-GSTZ1 (MOUSE) Monoclonal Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

#### Anti-GSTZ1 (MOUSE) Monoclonal Antibody - Images

kDa	М	1	2	
150 -	-			
100 -	-			
80 -				
60 -				
50 -	-			
40 -				
30 -		-		
20 -				

Western Blot of Mouse anti-GSTZ1 Monoclonal Antibody. Lane 1: Recombinant GSTZ1 protein. Lane 2: GST (p/n 000-001-200). Load: 50 ng per lane. Primary antibody: Mouse anti-GSTZ1 Monoclonal Antibody at 1:1,000 overnight at 4°C. Secondary antibody: HRP Mouse Secondary Antibody (p/n 610-403-C46) at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 27 kDa, 27 kDa for GSTZ1.

#### Anti-GSTZ1 (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.