

**GSTZ1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9070a****Specification**

---

**GSTZ1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [O43708](#)**GSTZ1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 2954**Other Names**

Maleylacetoacetate isomerase, MAAI, GSTZ1-1, Glutathione S-transferase zeta 1, GSTZ1, MAAI

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP9070a](/products/AP9070a) was selected from the N-term region of human GSTZ1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GSTZ1 Antibody (N-term) Blocking Peptide - 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. Has also 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

### **GSTZ1 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **GSTZ1 Antibody (N-term) Blocking Peptide - Images**

### **GSTZ1 Antibody (N-term) Blocking Peptide - Background**

GSTZ1 is a member of the glutathione S-transferase (GSTs) super-family which encodes multifunctional enzymes important in the detoxification of electrophilic molecules, including carcinogens, mutagens, and several therapeutic drugs, by conjugation with glutathione. This enzyme also plays a significant role in the catabolism of phenylalanine and tyrosine. Thus defects in this enzyme may lead to severe metabolic disorders including alkaptonuria, phenylketonuria and tyrosinaemia.

### **GSTZ1 Antibody (N-term) Blocking Peptide - References**

Olshan,A.F., et.al., Mutat. Res. (2010) In press  
Joslyn,G., et.al., Alcohol. Clin. Exp. Res. (2010) In press