

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

GSTZ1 Antibody (N-term) Blocking Peptide - Product InformationPrimary 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