

GSTM4 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP6944b**Specification**

GSTM4 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q03013](#)**GSTM4 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 2948**Other Names**

Glutathione S-transferase Mu 4, GST class-mu 4, GST-Mu2, GSTM4-4, GSTM4

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6944b](/products/AP6944b) was selected from the C-term region of human GSTM4. 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.

GSTM4 Antibody (C-term) Blocking Peptide - Protein Information**Name** GSTM4**Function**

Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles (PubMed: [8203914](http://www.uniprot.org/citations/8203914), PubMed: [8373352](http://www.uniprot.org/citations/8373352)). Catalyzes the conjugation of leukotriene A4 with reduced glutathione (GSH) to form leukotriene C4 (PubMed: [27791009](http://www.uniprot.org/citations/27791009)). Can also catalyzes the transfer of a glutathionyl group from glutathione (GSH) to 13(S),14(S)-epoxy-docosahexaenoic acid to form maresin conjugate in tissue regeneration 1 (MCTR1), a bioactive lipid mediator that possess potent anti-inflammatory and proresolving actions (PubMed: [27791009](http://www.uniprot.org/citations/27791009)).

Cellular Location

Cytoplasm.

Tissue Location

Expressed in a wide variety of tissues.

GSTM4 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

GSTM4 Antibody (C-term) Blocking Peptide - Images**GSTM4 Antibody (C-term) Blocking Peptide - Background**

Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This protein is a glutathione S-transferase that belongs to the mu class. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione.

GSTM4 Antibody (C-term) Blocking Peptide - References

Saito,A., et.al., J. Hum. Genet. 54 (6), 317-323 (2009)