

**GSTT1 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12899a****Specification**

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**GSTT1 Antibody (N-term) Blocking peptide - Product Information**Primary Accession [P30711](#)**GSTT1 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 2952**Other Names**

Glutathione S-transferase theta-1, GST class-theta-1, Glutathione transferase T1-1, GSTT1

**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.

**GSTT1 Antibody (N-term) Blocking peptide - Protein Information****Name** GSTT1**Function**

Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Acts on 1,2-epoxy- 3-(4-nitrophenoxy)propane, phenethylisothiocyanate 4-nitrobenzyl chloride and 4-nitrophenethyl bromide. Displays glutathione peroxidase activity with cumene hydroperoxide.

**Cellular Location**

Cytoplasm.

**Tissue Location**

Found in erythrocyte. Expressed at low levels in liver. In lung, expressed at low levels in club cells and ciliated cells at the alveolar/bronchiolar junction. Absent from epithelial cells of larger bronchioles.

**GSTT1 Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **GSTT1 Antibody (N-term) Blocking peptide - Images**

### **GSTT1 Antibody (N-term) Blocking peptide - Background**

Glutathione S-transferase (GST) theta 1 (GSTT1) is a member of a superfamily of proteins that catalyze the conjugation of reduced glutathione to a variety of electrophilic and hydrophobic compounds. Human GSTs can be divided into five main classes: alpha, mu, pi, theta, and zeta. The theta class includes GSTT1 and GSTT2. The GSTT1 and GSTT2 share 55% amino acid sequence identity and both of them were claimed to have an important role in human carcinogenesis. The GSTT1 gene is located approximately 50 kb away from the GSTT2 gene. The GSTT1 and GSTT2 genes have a similar structure, being composed of five exons with identical exon/intron boundaries.

### **GSTT1 Antibody (N-term) Blocking peptide - References**

Palli, D., et al. Mutagenesis 25(6):569-575(2010)  
Henderson, A.J., et al. Thorax 65(10):897-902(2010)  
Filonzi, L., et al. Birth Defects Res. Part A Clin. Mol. Teratol. 88(9):743-747(2010)  
Smith, G., et al. Pharmacogenet. Genomics (2010) In press  
Bid, H.K., et al. J Postgrad Med 56(3):176-181(2010)