

# GSTT1 Antibody

*Glutathione S-Transferase Theta-1, Mouse Anti Human  
ABM0296*

## Product Overview

Name GSTT1 Antibody

### Description

Glutathione S-Transferase Theta-1, Mouse Anti Human

### Synonyms

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

### Introduction

GSTT1 belongs to a superfamily of proteins which catalyze the conjugation of reduced glutathione to a variety of electrophilic and hydrophobic compounds. GSTT1 is one of the GSTs' four main classes: alpha, mu, pi and theta (which includes GSTT1 and GSTT2). GSTT1 is involved in activation and detoxification reactions and catalyzes the conjugation of industrial chemicals, such as epoxybutane, ethylene oxides, halomethane with glutathione. GSTT1 is found in erythrocytes, at low levels in the liver as well as in Clara and ciliated cells at the alveolar/bronchiolar junction in the lung. The GSTT1 gene is deficient in 38% of the population. The GSTT1 enzyme deficiency might influence the individual risk for development of acquired aplastic anemia and acute myeloid leukemia. The presence or absence of the GSTT1 gene is concurrent with GSST1+ (the conjugator) and GSTT1- (the non-conjugator) phenotypes correspondingly. The GSTT1+ phenotype is able to catalyze the glutathione conjugation of dichloromethane. GSTT1-null genotypes are seen as having a higher risk of developing leukoplakia. Germline genetic polymorphism in GSTT1 is linked to breast cancer.

### Source

Escherichia Coli.

### Physical Appearance

Sterile Filtered colorless solution.

### Formulation

The GSTT1 solution contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Purity

Greater than 95.0% as determined by SDS-PAGE.

**Amino acid sequence**

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS MGL ELYLDLLSQP CRAVYIFAKK NDIPFELRIV  
DLIKGQHLSD ACAQVNPLKK VPALKDGDFT LTESVAILLY LTRKYKVPDY WYPQDLQARA RVDEYLAWQH  
TTLRRSCLRA LWHKVMFPVF LGEPVSPQTL AATLAELDVT LQLEDKFLQ NKAFLTGPHI SLADLVAITE  
LMHPVGAGCQ VFEGRPKLAT WRQRVEAAVG EDLFQEAHEV ILKAKDFPPA DPTIKQLMP WVLAMIR.

**Precautions**

GSTT1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.