

Anti-Glutathione S Transferase Theta 1 Antibody
Catalog # ABO11164**Specification**

Anti-Glutathione S Transferase Theta 1 Antibody - Product Information

Application	WB
Primary Accession	P30711
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Glutathione S-transferase theta-1(GSTT1) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Glutathione S Transferase Theta 1 Antibody - Additional Information

Gene ID 2952

Other Names

Glutathione S-transferase theta-1, 2.5.1.18, GST class-theta-1, Glutathione transferase T1-1, GSTT1

Calculated MW

27335 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Cytoplasm.

Tissue Specificity

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

Protein Name

Glutathione S-transferase theta-1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human Glutathione S Transferase theta 1(96-112aa DEYLAHQHTTLRRSCLR), identical to the related rat sequence, and

different from the related mouse sequence by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the GST superfamily. Theta family.

Anti-Glutathione S Transferase Theta 1 Antibody - 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.

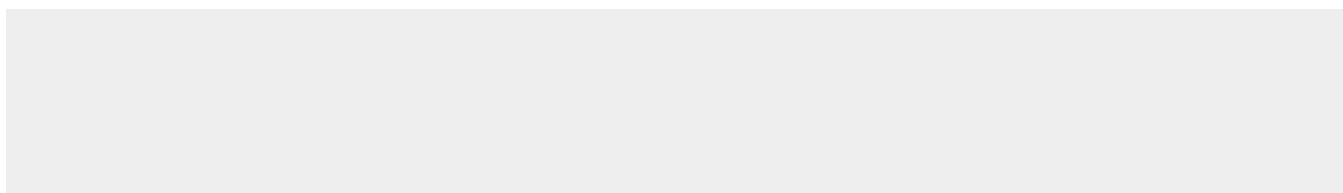
Tissue Location

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.

Anti-Glutathione S Transferase Theta 1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Glutathione S Transferase Theta 1 Antibody - Images



Anti-Glutathione S Transferase theta 1 antibody, ABO11164, Western blotting
Lane 1: COLO320 Cell Lysate
Lane 2: SW620 Cell Lysate

Anti-Glutathione S Transferase Theta 1 Antibody - Background

GSTT1 (glutathione S-transferase theta 1), also known as GST class-theta-1, Glutathione transferase T1-1, is an enzyme that in humans is encoded by the GSTT1 gene. It is a member of a superfamily of proteins that catalyze the conjugation of reduced glutathione to a variety of electrophilic and hydrophobic compounds. Human theta-class GST, termed GSTT1 has 239-amino acid GSTT1 protein shares 80% sequence identity with the rat homolog. 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 50kb away from the GSTT2 gene. The GSTT1 and GSTT2 genes have a similar structure, being composed of five exons with identical exon/intron boundaries.