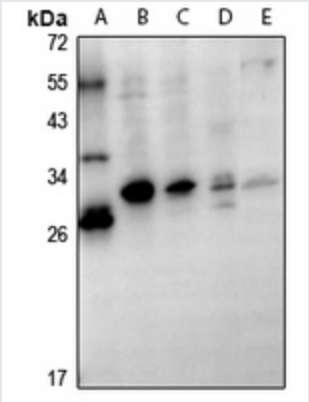
GSTT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GSTT1, Polyclonal Antibody
Full Product Name	Anti-GSTT1 Antibody
Product Gene Name	anti-GSTT1 antibody
Product Synonym Names	GSTT1; Glutathione S-transferase theta-1; GST class-theta-1; Glutathione transferase T1-1; GSTT4; Glutathione S-transferase theta-4; GST class-theta-4
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3, 30% Glycerol, and 0.01% Sodium Azide.
Purity/Purification	Purified by Immunogen Affinity Chromatography
Specificity	Recognizes endogenous levels of GSTT1 protein.
Preparation and Storage	Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	240
OMIM	600436
3D Structure	ModBase 3D Structure for P30711
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human GSTT1. The exact sequence is proprietary.
Applications Tested/Suitable for anti-GSTT1 antibody	Western Blot (WB)
Application Notes for anti-GSTT1 antibody	WB: 1:500-1:1000
Related Product Information for anti-GSTT1 antibody	MBS8305769 is an antibody targeting GSTT1. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to GSTT1
Other Notes	Small volumes of anti-GSTT1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-GSTT1 antibody
Western blot analysis of GSTT1 expression in mouse lung (A), K562 (B), Jurkat (C), HCC827 (D), H9C2 (E) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GSTT1. It may not necessarily be applicable to this product.

NCBI GI #	21264427
NCBI GeneID	2952
NCBI Accession #	P30711.4
UniProt Primary Accession #	P30711
UniProt Secondary Accession #	O00226; Q5TZY2; Q6IC69; Q969K8; Q96IY3
UniProt Related Accession #	P30711
NCBI Official Full Name	Glutathione S-transferase theta-1
NCBI Official Synonym Full Names	glutathione S-transferase theta 1
NCBI Official Symbol	GSTT1
UniProt Protein Name	Glutathione S-transferase theta-1
UniProt Synonym Protein Names	GST class-theta-1; Glutathione transferase T1-1
Protein Family	Glutathione S-transferase
UniProt Gene Name	GSTT1
UniProt Entry Name	GSTT1_HUMAN
NCBI Protein Information	glutathione S-transferase theta-1; GST class-theta-1; glutathione transferase T1-1
NCBI Summary for GSTT1	The protein encoded by this gene, 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. GSTT1 and GSTT2 share 55% amino acid sequence identity and both may play an important role in human carcinogenesis. The GSTT1 and GSTT2 genes have a similar structure, being composed of five exons with identical exon/intron boundaries. This GSTT1 gene is haplotype-specific and is absent from 38% of the population. Alternative splicing of this gene results in multiple transcript variants. Two related pseudogenes, which are also located on chromosome 22, have been identified. [provided by RefSeq, Jun 2014]

UniProt Comments for GSTT1	GSTT1: 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. Belongs to the GST superfamily. Theta family. Protein type: EC 2.5.1.18; Other Amino Acids Metabolism - glutathione; Xenobiotic Metabolism - drug metabolism - cytochrome P450; Transferase; Xenobiotic Metabolism - metabolism by cytochrome P450 Chromosomal Location of Human Ortholog: 22q11.23 Cellular Component: cytosol Molecular Function: glutathione transferase activity; glutathione peroxidase activity Biological Process: glutathione metabolic process; xenobiotic metabolic process
Research Articles on GSTT1	**1.** GSTT1 deletion polymorphism does not have a significant effect on the susceptibility to lung cancer.
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