



GSTT1/4 Polyclonal Antibody

Catalog No	YP-Ab-02649
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	GSTT1/GSTT4
Immunogen	The antiserum was produced against synthesized peptide derived from human GSTT1/4. AA range:10-59
Specificity	GSTT1/4 Polyclonal Antibody detects endogenous levels of GSTT1/4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	GSTT1/4;GSTT1/GSTT4;Glutathione S-transferase theta-1/Glutathione S-transferase theta-4;GSTT1;Glutathione S-transferase theta-1;GST class-theta-1; Glutathione transferase T1-1;GSTT4;Glutathione S-transferase theta-4;GST class-theta-4
Observed Band	30kD
Calculated Molecular Weight	30kD
Cell Pathway	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.
Function	catalytic activity:RX + glutathione = HX + R-S-glutathione.,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.,online information:The Singapore human mutation and polymorphism database, polymorphism:The GSTT1 gene is absent from 38% of the population. The



presence or absence of the GSTT1 gene is coincident with the conjugator (GSST1+) and non-conjugator (GSTT1-) phenotypes respectively. The GSTT1+ phenotype can catalyze the glutathione conjugation of dichloromethane., similarity:Belongs to the GST superfamily. Theta family.,similarity:Contains 1 GST C-terminal domain.,similarity:Contains 1 GST N-terminal domain., subunit:Homodimer.,tissue s

Background

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, GSTT2, and GSTT2B. GSTT1 and GSTT2/GSTT2B share 55% amino acid sequence identity and may play a role in human carcinogenesis. The GSTT1 gene is haplotype-specific and is absent from 38% of the population. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Sep 2015],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

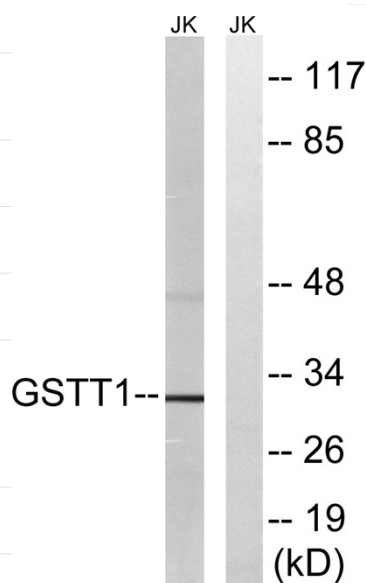
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



Western Blot analysis of various cells using GSTT1/4 Polyclonal Antibody



Western blot analysis of lysates from Jurkat cells, using GSTT1/4 Antibody. The lane on the right is blocked with the synthesized peptide.