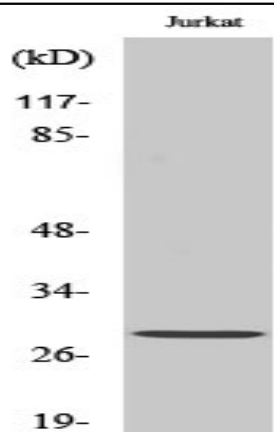


GSTT1/4 Polyclonal Antibody

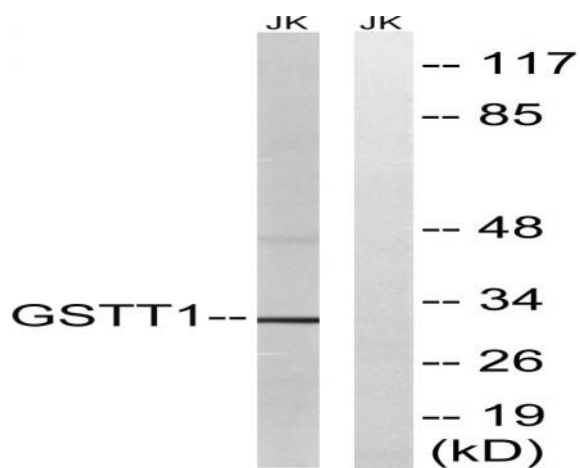
Catalog No :	YT2084
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	GSTT1/4
Fields :	>>Glutathione metabolism;>>Metabolism of xenobiotics by cytochrome P450;>>Drug metabolism - cytochrome P450;>>Drug metabolism - other enzymes;>>Metabolic pathways;>>Platinum drug resistance;>>Pathways in cancer;>>Chemical carcinogenesis - DNA adducts;>>Chemical carcinogenesis - receptor activation;>>Chemical carcinogenesis - reactive oxygen species;>>Hepatocellular carcinoma;>>Fluid shear stress and atherosclerosis
Gene Name :	GSTT1/GSTT4
Protein Name :	Glutathione S-transferase theta-1/Glutathione S-transferase theta-4
Human Gene Id :	2952
Human Swiss Prot No :	P30711/A8MPT4
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
Dilution :	WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	30kD
Cell Pathway :	Glutathione metabolism;Metabolism of xenobiotics by cytochrome P450;Drug metabolism;
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],
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
Subcellular Location :	Cytoplasm.
Expression :	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.

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.