

GST-Pi (ABT-GSTP1) Mouse mAb

Catalog No :	YM6765
Reactivity :	Human
Applications :	IHC;WB;ELISA
Target :	GST-Pi
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;>>Prostate cancer;>>Hepatocellular carcinoma;>>Fluid shear stress and atherosclerosis
Gene Name :	GSTP1 FAEES3 GST3
Protein Name :	GST-Pi
Human Gene Id :	2950
Human Swiss Prot No :	P09211
Immunogen :	Synthesized peptide derived from human GST-Pi AA range: 150-210
Specificity :	This antibody detects endogenous levels of human GST-Pi, TRIS-EDTA of pH9.0 was used for Heat-induced epitope retrieval (HIER)
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Mouse, Monoclonal/IgG1, Kappa
Dilution :	IHC 1:200-400,WB 1:100-2000, ELISA 1:5000-20000
Purification :	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

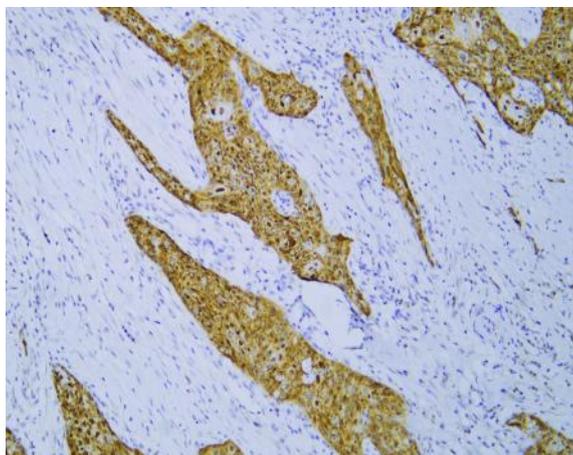
Molecularweight : 23kD

Background : Glutathione S-transferases (GSTs) are a family of enzymes that play an important role in detoxification by catalyzing the conjugation of many hydrophobic and electrophilic compounds with reduced glutathione. Based on their biochemical, immunologic, and structural properties, the soluble GSTs are categorized into 4 main classes: alpha, mu, pi, and theta. This GST family member is a polymorphic gene encoding active, functionally different GSTP1 variant proteins that are thought to function in xenobiotic metabolism and play a role in susceptibility to cancer, and other diseases. [provided by RefSeq, Jul 2008],

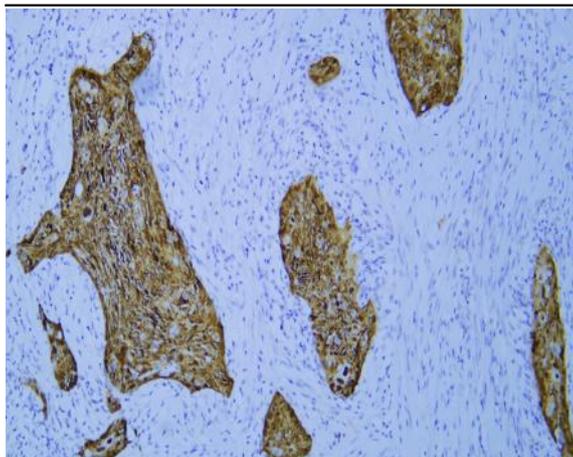
Function : catalytic activity:RX + glutathione = HX + R-S-glutathione.,function:Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles.,online information:The Singapore human mutation and polymorphism database,similarity:Belongs to the GST superfamily. Pi family.,similarity:Contains 1 GST C-terminal domain.,similarity:Contains 1 GST N-terminal domain.,subunit:Homodimer.,

Subcellular Location : Cytoplasmic

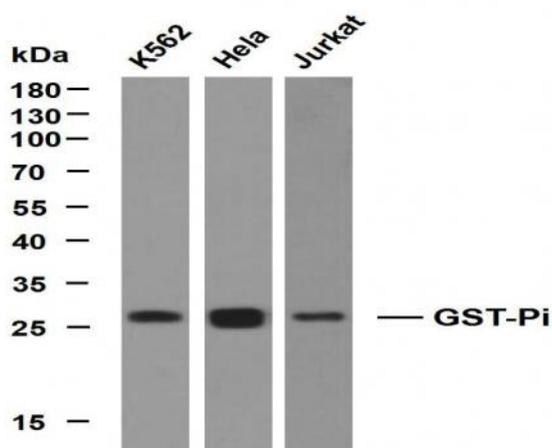
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Human esophageal squamous cell carcinoma tissue was stained with Anti-GST-Pi (ABT-GSTP1) Antibody



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Various whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-GST-Pi (ABT-GSTP1) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: K562 Lane 2: HeLa Lane 3: Jurkat Predicted band size: 26kDa Observed band size: 26kDa