

Product datasheet for **TA306508**

GST3 (GSTP1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 1 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	GSTP1 antibody was raised against a 14 amino acid peptide from near the center of human GSTP1.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	glutathione S-transferase pi 1
Database Link:	NP_000843 Entrez Gene 14870 Mouse Entrez Gene 24426 Rat Entrez Gene 2950 Human P09211



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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. The glutathione S-transferase pi gene (GSTP1) is a polymorphic gene encoding active, functionally different GSTP1 variant proteins that are thought to function in xenobiotic metabolism (i.e., the metabolism of environmental mutagens and carcinogens) and may play a role in susceptibility to cancer. More recent experiments have suggested that differential expression of GSTP1 also contributes to the sensitivity of xenobiotics in the substantia nigra and may influence the pathogenesis of reactive oxygen species-induced neurological disorders such as Parkinson's disease. CpG island hypermethylation of the GSTP1 promoter leading to the silencing of the GSTP1 gene has also been linked to cancer.

Synonyms:

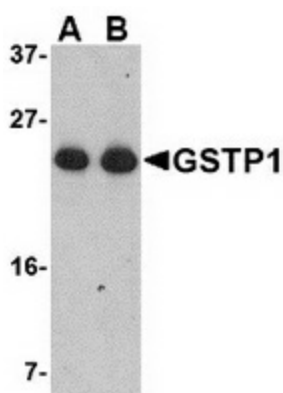
DFN7; FAEES3; GST3; GSTP; HEL-S-22; PI

Protein Families:

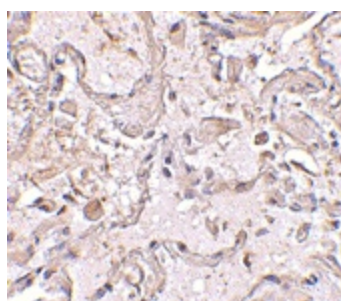
Druggable Genome

Protein Pathways:

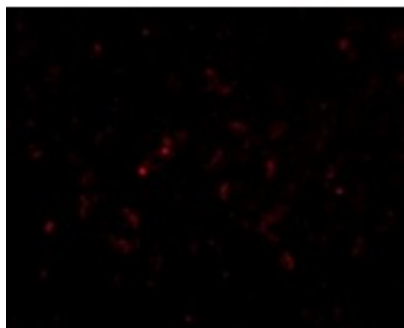
Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450, Pathways in cancer, Prostate cancer

Product images:

Western blot analysis of GSTP1 in Jurkat cell lysate with GSTP1 antibody at (A) 0.5 and (B) 1 ug/ml.



Immunohistochemical staining of human lung tissue using GSTP1 antibody at 2.5 ug/ml.



Immunofluorescence of GSTP1 in Human Lung cells with GSTP1 antibody at 20 ug/mL.