



GSTP1 Polyclonal Antibody

E90347

Catalog Number: E90347**Amount:** 100ul

Background: Glutathione S-transferases (GSTs) are a family of isoenzymes that detoxify electrophiles through conjugation to thiol-reduced glutathione (GSH). Thus, they are critical in protecting cells from toxins (drugs, pesticides, carcinogens) and oxidative stress (1). Eight isoforms of cytosolic-soluble GSTs (α , κ , μ , π , σ , θ , ζ , and ω) are identified, while only GST- α , - μ , and - π are described in the central nervous system (2). GSTP1 (GST π) is overexpressed in early stages of carcinogenesis and can be used as a neoplastic marker in tumor tissues (3). GSTP1 directly inhibits TRAF2 and JNK but not NF- κ B (4,5). Corresponding GSTP1 gene polymorphisms affect substrate selectivity and stability, and the oxidative milieu in dopaminergic neurons, which increases the susceptibility to Parkinson's disease (6).

Species: Rabbit**Isotype:** IgG

Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

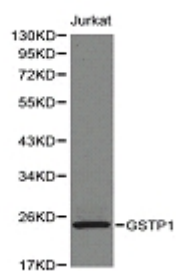
Synonyms: GSTP1;DFN7;FAEES3;GST3;PI ;**Immunogen:** Fusion protein of human GSTP1**Purification:** Affinity purification**Reactivity:** H M R**Applications:** WB IHC**Molecular Weight:** 23kDa**Swiss-Prot No. :** P09211**Gene ID:** 2950

References: 1. Hayes, J.D. et al. (2005) Annu Rev Pharmacol Toxicol 45, 51-88. 2. Mannervik, B. et al. (2005) Methods Enzymol 401, 1-8. 3. Ali-Osman, F. et al. (1997) Clin Cancer Res 3, 2253-61. 4. Elsby, R. et al. (2003) J Biol Chem 278, 22243-9. 5. Wu, Y. et al. (2006) Oncogene 25, 5787-800. 6. Castro-Caldas, M. et al. (2009) J Mol Neurosci 38, 114-27.

For Research Use Only

WB 1:500 - 1:1000

IHC 1:50 - 1:100



Western blot analysis of extracts of Jurkat cell using
GSTP1 antibody.