

GSTP1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5183

Specification

GSTP1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P09211
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=23;Rat=23 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

GSTP1 Antibody (Center) - Additional Information

Gene ID 2950

Antigen Region
97-126

Other Names
GSTP1; FAEES3; GST3; Glutathione S-transferase P; GST class-pi; GSTP1-1

Dilution
WB~~1:1000

Target/Specificity
This GSTP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 97-126 amino acids from the Central region of human GSTP1.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
GSTP1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

GSTP1 Antibody (Center) - Protein Information

Name GSTP1 ([HGNC:4638](#))

Synonyms FAEES3, GST3

Function

Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Involved in the formation of glutathione conjugates of both prostaglandin A2 (PGA2) and prostaglandin J2 (PGJ2) (PubMed:9084911). Participates in the formation of novel hepxilin regioisomers (PubMed:21046276). Negatively regulates CDK5 activity via p25/p35 translocation to prevent neurodegeneration.

Cellular Location

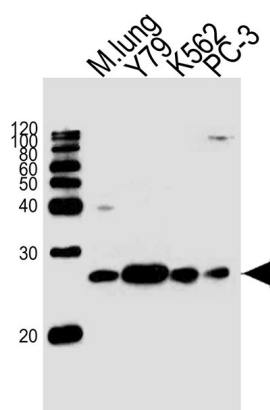
Cytoplasm. Mitochondrion. Nucleus. Note=The 83 N-terminal amino acids function as an uncleaved transit peptide, and arginine residues within it are crucial for mitochondrial localization

GSTP1 Antibody (Center) - Protocols

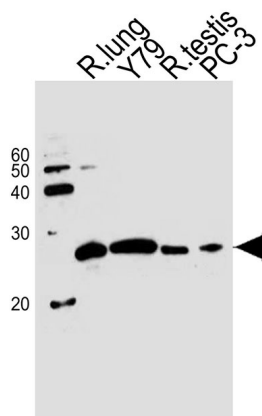
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

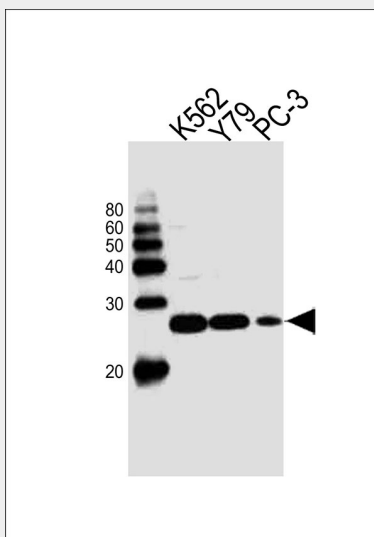
GSTP1 Antibody (Center) - Images



Western blot analysis of lysates from mouse lung tissue lysate, Y79, K562, PC-3 cell line (from left to right), using GSTP1 Antibody (Center) (Cat. #AW5183). AW5183 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



Western blot analysis of lysates from rat lung tissue, Y79 cell line, rat testis tissue, PC-3 cell line (from left to right), using GSTP1 Antibody (Center) (Cat. #AW5183). AW5183 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



Western blot analysis of lysates from K562, Y79, PC-3 cell line (from left to right), using GSTP1 Antibody (Center) (Cat. #AW5183). AW5183 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody.

GSTP1 Antibody (Center) - 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.

GSTP1 Antibody (Center) - References

Cho, H.J., et al., *Cancer Genet. Cytogenet.* 198 (1), 40-46 (2010)

Kanai,M., et.al., Cancer Epidemiol 34 (2), 189-193 (2010)
Davila,S., et.al., Genes Immun. 11 (3), 232-238 (2010)