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GSTP1 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2932b

Specification

GSTP1 Antibody (C-term) - Product Information

Application	**IF, WB, FC,E**
Primary Accession	P09211
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**23356**
Antigen Region	**165-192**

GSTP1 Antibody (C-term) - Additional Information

Gene ID 2950

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

Target/Specificity
This GSTP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 165-192 amino acids from the C-terminal region of human GSTP1.

Dilution
IF~~1:10~50
WB~~1:1000
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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 (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GSTP1 Antibody (C-term) - 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 hepoxilin regioisomers (PubMed:21046276). Negatively regulates CDK5 activity via p25/p35 translocation to prevent neurodegeneration.

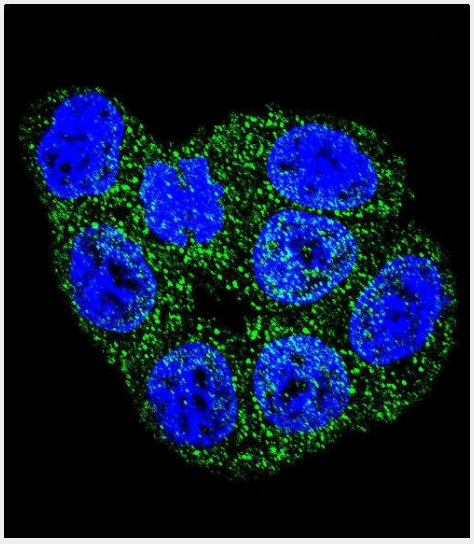
Cellular Location
Cytoplasm. Mitochondrion. Nucleus. Note=The 83 N-terminal amino acids function as un uncleaved transit peptide, and arginine residues within it are crucial for mitochondrial localization

GSTP1 Antibody (C-term) - Protocols

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

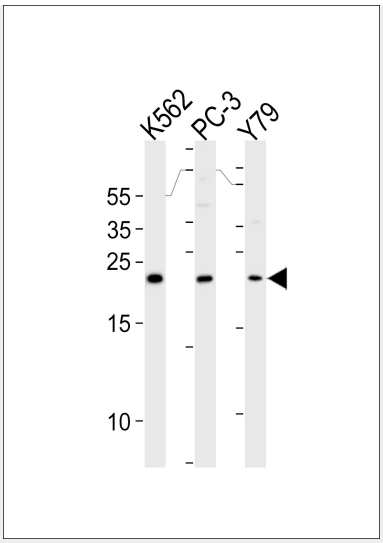
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GSTP1 Antibody (C-term) - Images

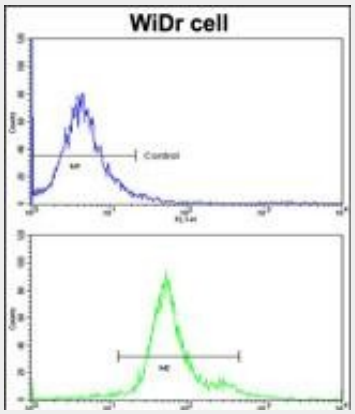


Confocal immunofluorescent analysis of GSTP1 Antibody (C-term)(Cat#AP2932b) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).

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GSTP1 Antibody (C-term) (Cat. #AP2932b) western blot analysis in K562,PC-3,Y79 cell line lysates (35ug/lane).This demonstrates the GSTP1 antibody detected the GSTP1 protein (arrow).



Flow cytometric analysis of widr cells using GSTP1 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram)FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

GSTP1 Antibody (C-term) - 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 (C-term) - References

Spurdle,A.B., et.al., Breast Cancer Res. Treat. (2009)
Agusa,T., et.al., Toxicol. Appl. Pharmacol. (2009)