

**Anti-GST3/GST Pi Antibody**  
**Catalog # ABO10904****Specification**

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**Anti-GST3/GST Pi Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P09211</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Glutathione S-transferase P(GSTP1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-GST3/GST Pi Antibody - Additional Information**

**Gene ID** 2950

**Other Names**

Glutathione S-transferase P, 2.5.1.18, GST class-pi, GSTP1-1, GSTP1, FAES3, GST3

**Calculated MW**

23356 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br><br>Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

**Subcellular Localization**

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

**Protein Name**

Glutathione S-transferase P

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human GST3/GST pi(12-32aa RGRCAALRMLLADQGQSWKEE), different from the related rat and mouse sequences by two amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the GST superfamily. Pi family.

**Anti-GST3/GST Pi Antibody - 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](http://www.uniprot.org/citations/9084911)). Participates in the formation of novel heptoxilin regioisomers (PubMed: [21046276](http://www.uniprot.org/citations/21046276)). Negatively regulates CDK5 activity via p25/p35 translocation to prevent neurodegeneration.

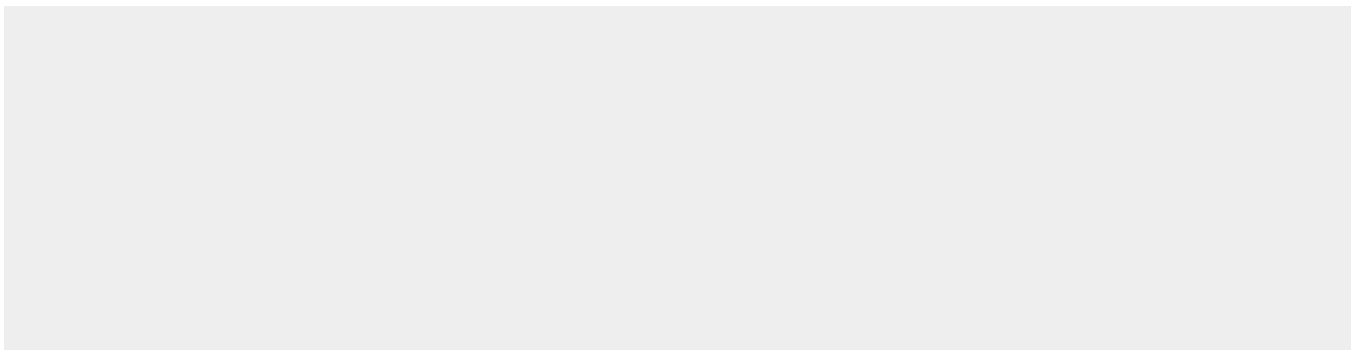
**Cellular Location**

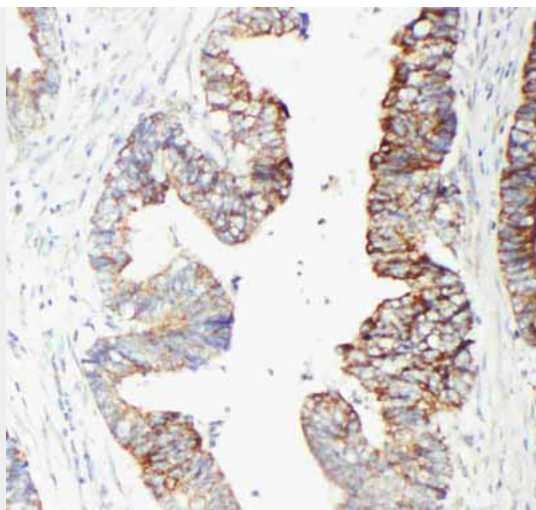
Cytoplasm. Mitochondrion. Nucleus. Note=The 83 N-terminal amino acids function as an uncleaved transit peptide, and arginine residues within it are crucial for mitochondrial localization

**Anti-GST3/GST Pi Antibody - Protocols**

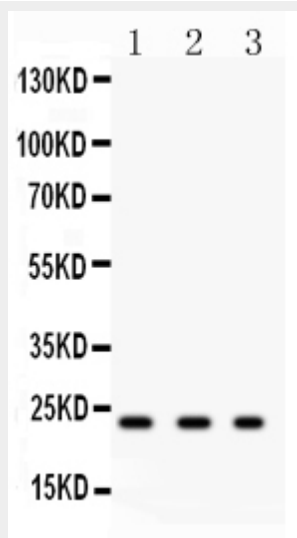
Provided below are standard protocols that you may find useful for product applications.

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

**Anti-GST3/GST Pi Antibody - Images**



Anti-GST3/GST pi antibody, ABO10904, IHC(P)IHC(P): Human Intestinal Cancer Tissue



Anti-GST3/GST pi antibody, ABO10904, Western blotting All lanes: Anti GST3/GST pi (ABO10904) at 0.5ug/ml Lane 1: Rat Kidney Tissue Lysate at 50ug Lane 2: HELA Whole Cell Lysate at 40ug Lane 3: COLO320 Whole Cell Lysate at 40ug Predicted bind size: 23KD Observed bind size: 23KD

### Anti-GST3/GST Pi Antibody - Background

Glutathione S-transferases pi, also known as GST3, present in all tissues and cells, with the exception of red cells, in which only erythrocyte GST(GSTe) is observed. The GST-pi gene has 7 exons and 6 introns contained within approximately 2.8 kilobases. The GST-pi gene is mapped to chromosome 11. Placental glutathione-S-transferase-pi mRNA is abundantly expressed in human skin. GSTP does not contribute in vivo to the formation of glutathione conjugates of acetaminophen but plays a novel and unexpected role in the toxicity of this compound.