

## Anti-GST3/GST Pi Antibody

Catalog # ABO10904

### Specification

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

Application **IHC, WB**  
Primary Accession [P09211](#)  
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, FAEES3, GST3

#### Calculated MW

23356 MW KDa

#### Application Details

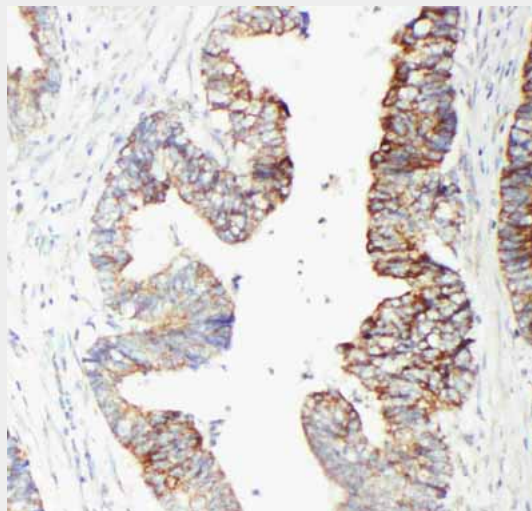
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat  
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

#### Subcellular Localization

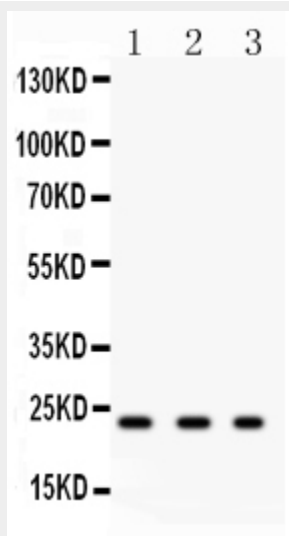
Cytoplasm . Mitochondrion . Nucleus . The 83 N-terminal amino acids function as an uncleaved transit peptide, and arginine residues within it are crucial for mitochondrial localization.

#### Protein Name

Glutathione S-transferase P



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



Anti-GST3/GST pi antibody, ABO10904,Western blottingAll lanes: Anti GST3/GST pi (ABO10904) at 0.5ug/mlLane 1: Rat Kidney Tissue Lysate at 50ug/mlLane 2: HELA Whole Cell Lysate at 40ug/mlLane 3: COLO320 Whole Cell Lysate at 40ug/mlPredicted bind size: 23KDObserved bind size: 23KD

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

**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 r°Constitution, 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.

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.

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

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

**Synonyms** FAES3, 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 A<sub>2</sub> (PGA<sub>2</sub>) and prostaglandin J<sub>2</sub> (PGJ<sub>2</sub>) (PubMed:<a href="http://www.uniprot.org/citations/9084911" target="\_blank">9084911</a>). Participates in the formation of novel hepoxilin regioisomers (PubMed:<a href="http://www.uniprot.org/citations/21046276" target="\_blank">21046276</a>). Regulates negatively 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](#)