

Anti-GST3/GST Pi Antibody
Catalog # ABO10527**Specification**

Anti-GST3/GST Pi Antibody - Product Information

Application	WB
Primary Accession	P09211
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized

Description

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

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

Western blot, 0.1-0.5 µg/ml, Human, 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

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human GST3(197-210aa PEYVNLPIGNGKQ), different from the related mouse sequence 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.

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). Participates in the formation of novel hepoxilin regioisomers (PubMed:21046276). Negatively regulates CDK5 activity via p25/p35 translocation to prevent neurodegeneration.

Cellular Location

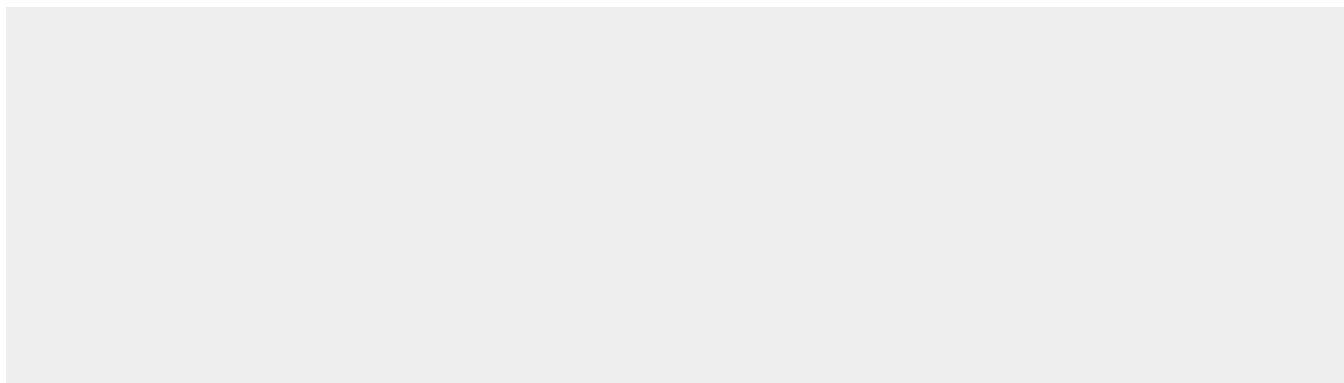
Cytoplasm. Mitochondrion. Nucleus. Note=The 83 N-terminal amino acids function as un-cleaved transit peptide, and arginine residues within it are crucial for mitochondrial localization

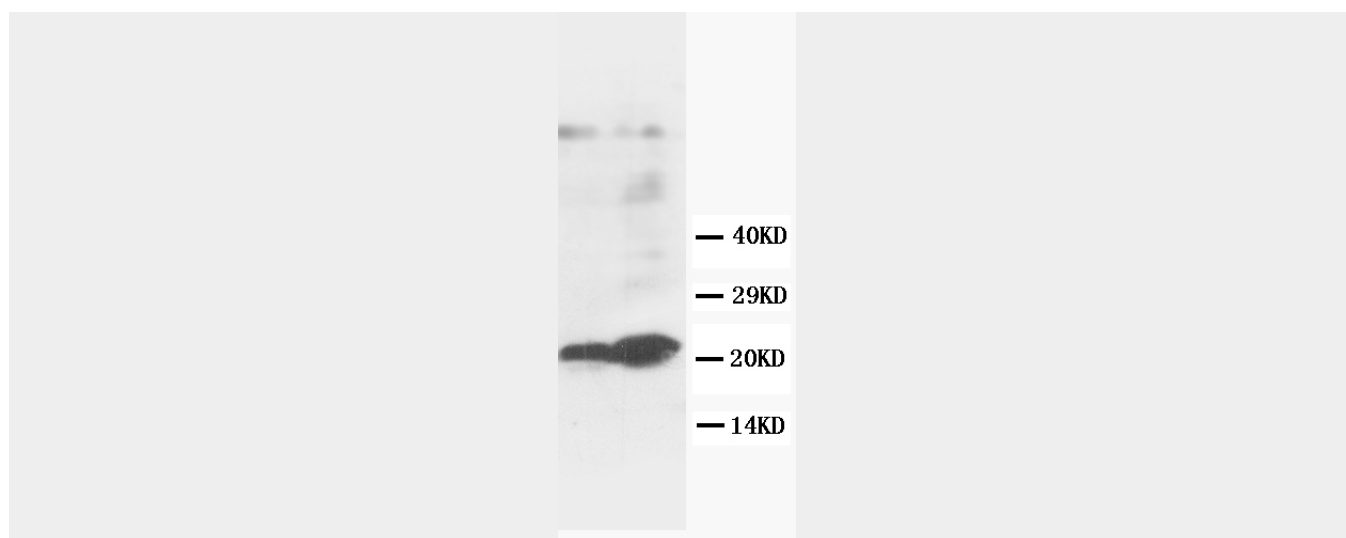
Anti-GST3/GST Pi Antibody - Protocols

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, ABO10527, Western blotting Lane 1: MCF-7 Cell Lysate Lane 2: COLO320 Cell Lysate

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.