

Anti-GST3/GST Pi Antibody

Catalog # ABO10527

Specification

Anti-GST3/GST Pi Antibody - Product Information

ApplicationWBPrimary AccessionP09211HostRabbitReactivityHuman, MouseClonalityPolyclonalFormatLyophilizedDescriptionRabbit 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, FAEES3, 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 un 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 PEYVNLPINGNGKQ), 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 (<u>HGNC:4638</u>)

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). 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

Anti-GST3/GST Pi Antibody - Protocols

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

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-GST3/GST Pi Antibody - Images





Anti-GST3/GST pi antibody, ABO10527, Western blottingLane 1: MCF-7 Cell LysateLane 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.