

Anti-GST3/GST Pi Picoband Antibody
Catalog # ABO11876**Specification**

Anti-GST3/GST Pi Picoband Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P09211
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

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

Reconstitution

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

Anti-GST3/GST Pi Picoband 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, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat

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 Na₃.

Immunogen

E.coli-derived human GST3 recombinant protein (Position: P2-Q210). Human GST3 shares 85% and 86% amino acid (aa) sequences identity with mouse and rat GST3, respectively.

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 Picoband 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.

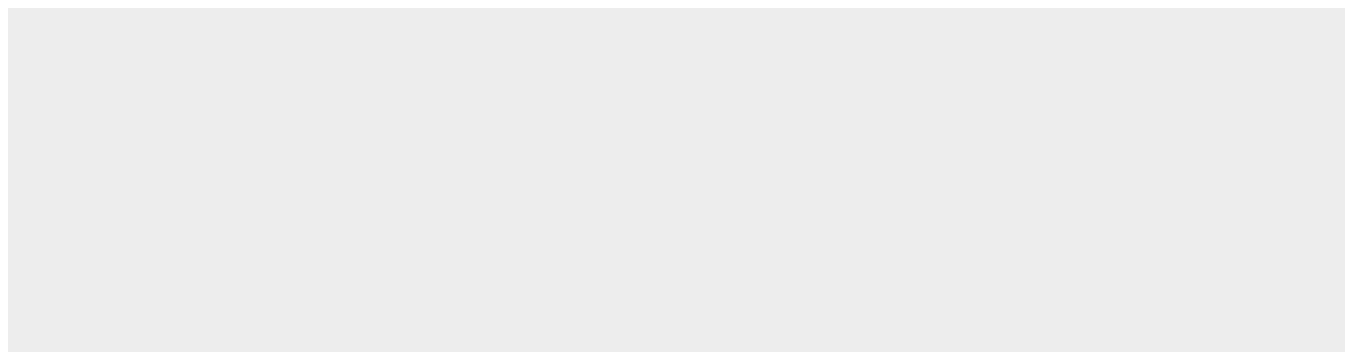
Cellular Location

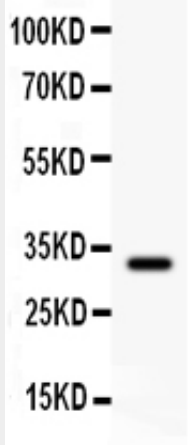
Cytoplasm. Mitochondrion. Nucleus. Note=The 83 N-terminal amino acids function as an uncleaved transit peptide, and arginine residues within it are crucial for mitochondrial localization

Anti-GST3/GST Pi Picoband Antibody - Protocols

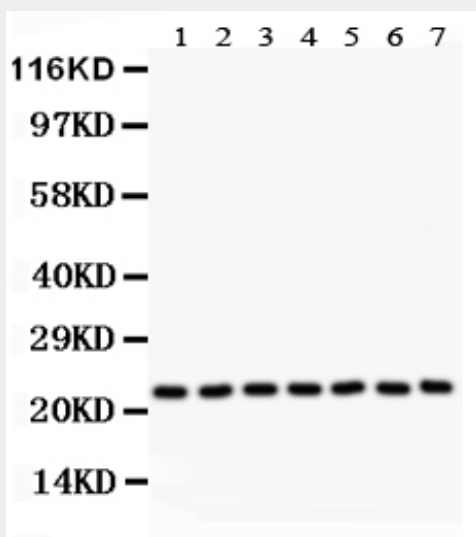
Provided below are standard protocols that you may find useful for product applications.

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

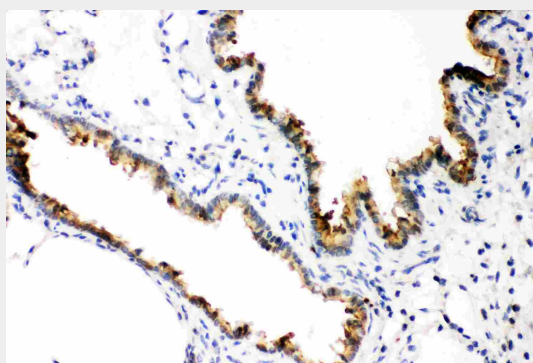
Anti-GST3/GST Pi Picoband Antibody - Images



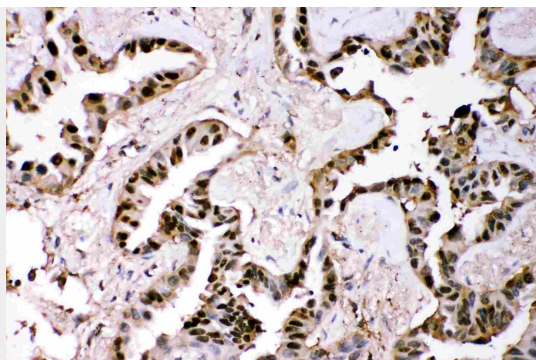
Anti- GST3/GST pi Picoband antibody, ABO11876, Western blotting All lanes: Anti GST3/GST pi (ABO11876) at 0.5ug/ml WB: Recombinant Human GST3 Protein 0.5ng Predicted bind size: 32KD Observed bind size: 32KD



Anti- GST3/GST pi Picoband antibody, ABO11876, Western blotting All lanes: Anti GST3/GST pi (ABO11876) at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Rat Kidney Tissue Lysate at 50ug Lane 3: Rat Liver Tissue Lysate at 50ug Lane 4: Hela Whole Cell Lysate at 40ug Lane 5: HT1080 Whole Cell Lysate at 40ug Lane 6: MCF-7 Whole Cell Lysate at 40ug Lane 7: SW620 Whole Cell Lysate at 40ug Predicted bind size: 23KD Observed bind size: 23KD



Anti- GST3/GST pi Picoband antibody, ABO11876, IHC(P) IHC(P): Rat Lung Tissue



Anti- GST3/GST pi Picoband antibody, ABO11876, IHC(P)IHC(P): Human Lung Cancer Tissue

Anti-GST3/GST Pi Picoband Antibody - Background

Glutathione S-transferases pi (GSTP1), also known as GST3, is an enzyme that in humans is encoded by the GSTP1 gene. This gene is mapped to 11q13.2. GSTP1 has 7 exons and 6 introns contained within approximately 2.8 kilobases. GSTP1 belongs to Glutathione S-transferases (GSTs) which 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. GSTP1 presents in all tissues and cells, with the exception of red cells, in which only erythrocyte GST(GSTe) is observed. What's more, GSTP1 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.