

Anti-GSTA1/A2/A3/A4/A5 Picoband Antibody
Catalog # ABO12313**Specification**

Anti-GSTA1/A2/A3/A4/A5 Picoband Antibody - Product Information

Application	WB
Primary Accession	Q7RTV2
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Glutathione S-transferase A1/A2/A3/A4/A5(GSTA1/A2/A3/A4/A5) detection. Tested with WB in Human; Mouse;Rat.

Reconstitution

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

Anti-GSTA1/A2/A3/A4/A5 Picoband Antibody - Additional Information

Gene ID 221357

Other Names

Glutathione S-transferase A5, 2.5.1.18, GST class-alpha member 5, Glutathione S-transferase A5-5, GSTA5

Calculated MW

25722 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human

Subcellular Localization

Cytoplasm .

Tissue Specificity

Expression not detected.

Protein Name

Glutathione S-transferase A1/A2/A3/A4/A5

Contents

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

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human GSTA1/A2/A3/A4/A5 (63-97aa MKLVQTRAILNYIASKYNLYGKDIKERALIDM YIE), different from the related mouse and rat sequences by five 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.

Anti-GSTA1/A2/A3/A4/A5 Picoband Antibody - Protein Information

Name GSTA5

Cellular Location

Cytoplasm.

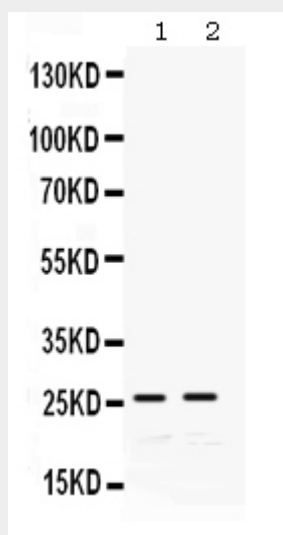
Tissue Location

Expression not detected.

Anti-GSTA1/A2/A3/A4/A5 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-GSTA1/A2/A3/A4/A5 Picoband Antibody - Images

Anti- GSTA1/A2/A3/A4/A5 Picoband antibody, ABO12313, Western blottingAll lanes: Anti GSTA1/A2/A3/A4/A5 (ABO12313) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Mouse Liver Tissue Lysate at 50ugPredicted bind size: 26KDObserved bind size: 26KD

Anti-GSTA1/A2/A3/A4/A5 Picoband Antibody - Background

Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes function in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding these enzymes are known to be highly polymorphic. These genetic variations can change an individual's susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of some drugs. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-transferase belonging to the alpha class. The alpha class genes, located in a cluster mapped to chromosome 6, are the most abundantly expressed glutathione S-transferases in liver (hepatocytes) and kidney (proximal tubules). In addition to metabolizing bilirubin and certain anti-cancer drugs in the liver, the alpha class of these enzymes exhibit glutathione peroxidase activity, thereby protecting the cells from reactive oxygen species and the products of peroxidation.