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

Catalog # ABO12313

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.

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
Application Details	Western blot, 0.1-0.5 □g/ml, Mouse, Rat, Human
Subcellular Localization	Cytoplasm .
Tissue Specificity	Expression not detected.
Source	Eukaryota
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 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.

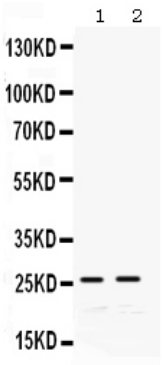
Protein Information

Name	GSTA5
Cellular Location	Cytoplasm.
Tissue Location	Expression not detected.

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.