

GSTA1 polyclonal antibody

Catalog # PAB13601 Size 100 uL

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant GSTA1.
Immunogen	Recombinant protein corresponding to human GSTA1.
Host	Rabbit
Reactivity	Human, Rat
Specificity	Specific for the alpha form (human and rat). Minimal cross-reactivity with the pi form of GST, but does not cross-react with the mu form of GST. Reactive with 0.2 g of recombinant human GST A1-1.
Form	Liquid
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.5
Storage Instruction	Store at -20°C. For long term storage store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — GSTA1

Entrez GeneID	2938
Gene Name	GSTA1
Gene Alias	GST2, GSTA1-1, GTH1, MGC131939
Gene Description	glutathione S-transferase alpha 1

Omim ID [138359](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. 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. [provided by RefSeq]

Other Designations

GST, class alpha, 1|GST-epsilon|OTTHUMP00000016611|S-(hydroxyalkyl)glutathione lyase A1|glutathione S-alkyltransferase A1|glutathione S-aryltransferase A1|glutathione S-transferase 2|glutathione S-transferase A1|glutathione S-transferase Ha subunit 1

Publication Reference

- [Glutathione-s-transferase pi expression in leukaemia: a comparative analysis with mdr-1 data.](#)

Holmes J, Wareing C, Jacobs A, Hayes JD, Padua RA, Wolf CR.

British Journal of Cancer 1990 Aug; 62(2):209.

Pathway

- [Drug metabolism - cytochrome P450](#)
- [Glutathione metabolism](#)
- [Metabolism of xenobiotics by cytochrome P450](#)

Disease

- [Acute Disease](#)
- [Adenoma](#)
- [Adenomatous Polyposis Coli](#)

- [Alzheimer disease](#)
- [Amphetamine-Related Disorders](#)
- [Arsenic Poisoning](#)
- [Asthma](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Chromosome Aberrations](#)
- [Chromosome Deletion](#)
- [Cognition](#)
- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [DNA Damage](#)
- [Drug Toxicity](#)
- [Duodenal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Graft vs Host Disease](#)
- [Hemoglobinopathies](#)
- [Hepatic Veno-Occlusive Disease](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Liver Diseases](#)
- [Liver Neoplasms](#)
- [Lung carcinoma](#)

- [Lung Neoplasms](#)
- [Mouth Neoplasms](#)
- [Myelodysplastic Syndromes](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasms](#)
- [Neutropenia](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Recurrence](#)
- [Stomach Neoplasms](#)
- [Translocation](#)
- [Urinary Bladder Neoplasms](#)
- [Urologic Neoplasms](#)