GSTM1 polyclonal antibody

Catalog # PAB13602 Size 100 uL

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant GSTM1.
Immunogen	Recombinant protein corresponding to human GSTM1.
Host	Rabbit
Reactivity	Human, Rat
Specificity	This antibody reacts specifically with GSTs of the mu class and does not cross react with alpha or pi class GSTs.
Form	Liquid
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In unpurified antiserum
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — GSTM1

Entrez GeneID	2944
Gene Name	GSTM1
Gene Alias	GST1, GSTM1-1, GSTM1a-1a, GSTM1b-1b, GTH4, GTM1, H-B, MGC26563, MU, MU-1

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Gene Description	glutathione S-transferase mu 1
Omim ID	138350
Gene Ontology	Hyperlink
Gene Summary	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct s upergene families. At present, eight distinct classes of the soluble cytoplasmic mammalian glutath ione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. Thi s gene encodes a glutathione S-transferase that belongs to the mu class. The mu class of enzyme s functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic dru gs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The gen es encoding the mu class of enzymes are organized in a gene cluster on chromosome 1p13.3 an d are known to be highly polymorphic. These genetic variations can change an individual's suscep tibility to carcinogens and toxins as well as affect the toxicity and efficacy of certain drugs. Null mut ations of this class mu gene have been linked with an increase in a number of cancers, likely due t o an increased susceptibility to environmental toxins and carcinogens. Multiple protein isoforms a re encoded by transcript variants of this gene. [provided by RefSeq
Other Designations	GST class-mu 1|HB subunit 4|OTTHUMP00000013346|OTTHUMP00000013347|S-(hydroxyalkyl) glutathione lyase|glutathione S-alkyltransferase|glutathione S-aralkyltransferase|glutathione S-arylt ransferase|glutathione S-transferase M1

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

- Abnormalities
- Abortion

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- Absenteeism
- Acute Disease
- Acute Lung Injury
- Adenocarcinoma
- Adenoma
- Adenomatous Polyposis Coli
- Airway Remodeling
- Akathisia
- Alcohol Withdrawal Delirium
- Alcoholism
- Alcohol-Related Disorders
- alpha 1-Antitrypsin Deficiency
- Alpha-1-antitrypsin deficiency
- Altitude Sickness
- Alzheimer disease
- Amphetamine-Related Disorders
- Anemia
- Aneuploidy
- Arsenic Poisoning
- Arteriosclerosis
- Arthritis
- Asbestosis
- Ascorbic Acid Deficiency
- Asphyxia Neonatorum
- Asthma
- Astrocytoma

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- Atherosclerosis
- Atrophy
- Auditory Threshold
- Autistic Disorder
- Balkan Nephropathy
- Barrett Esophagus
- Behcet Syndrome
- beta-Thalassemia
- Birth Weight
- Bone Marrow Diseases
- Brain Diseases
- Brain Ischemia
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchitis
- Calcinosis
- Carcinoma
- Cardiomyopathies
- Cardiovascular Diseases
- Carotid Artery Diseases
- Cataract
- Cell Transformation
- Central Nervous System Diseases
- Cerebellar Neoplasms

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- Cerebral Infarction
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Cervical Intraepithelial Neoplasia
- Chromosomal Instability
- Chromosome Aberrations
- Chromosome Breakage
- Chromosome Deletion
- Chromosome Disorders
- Chronic Disease
- Cleft Lip
- Cleft Palate
- Cocarcinogenesis
- Cognition
- Cognition Disorders
- Colitis
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Congenital Abnormalities
- Coronary Artery Disease
- Coronary Disease
- Crohn Disease
- Cystic fibrosis
- Delayed Graft Function
- Depressive Disorder

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- Dermatitis
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Neuropathies
- Diabetic Retinopathy
- Disease Models
- Disease Progression
- Disease Susceptibility
- DNA Damage
- Down Syndrome
- Drug Eruptions
- Drug Hypersensitivity
- Drug Toxicity
- Drug-Induced Liver Injury
- Duodenal Neoplasms
- Dyskinesia
- Dyslipidemias
- Dysmenorrhea
- Dyspepsia
- Eclampsia
- Edema
- Ehlers-Danlos Syndrome
- Emphysema
- Endometrial Neoplasms
- Endometriosis

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- Ependymoma
- Epilepsy
- Erythema
- Esophageal Atresia
- Esophageal Neoplasms
- Esophagitis
- Exfoliation Syndrome
- Eye Diseases
- Fanconi Anemia
- Fatty Liver
- Fetal Growth Retardation
- Fibrocystic Breast Disease
- Flushing
- Gallbladder Neoplasms
- Gallstones
- Gastritis
- Gastroesophageal Reflux
- Gastrointestinal Neoplasms
- Genetic Predisposition to Disease
- Genital Diseases
- Genomic Instability
- Germinoma
- Glaucoma
- Glioma
- Glomerulonephritis
- Graft vs Host Disease

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- Graves Disease
- Hallucinations
- Hamartoma
- Head and Neck Neoplasms
- Hearing Disorders
- Hearing Loss
- Helicobacter Infections
- HELLP Syndrome
- Hematologic Diseases
- Hematologic Neoplasms
- Hemoglobinopathies
- Hemorrhage
- Hepatic Veno-Occlusive Disease
- Hepatitis
- Hepatitis B
- Hepatitis C
- HIV Infections
- HIV Seropositivity
- Hodgkin Disease
- Hypersensitivity
- Hypertension
- Hypopharyngeal Neoplasms
- Hypospadias
- Infection
- Infertility
- Inflammation

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- Inflammatory Bowel Diseases
- Intestinal Neoplasms
- Iron Overload
- Jaundice
- Keratosis
- Kidney Diseases
- Kidney Failure
- Kidney Neoplasms
- Laryngeal Neoplasms
- Leber hereditary optic neuropathy
- Leiomyoma
- Leukemia
- Leukemia-Lymphoma
- Leukopenia
- Leukoplakia
- Limb Deformities
- Liver Cirrhosis
- Liver Diseases
- Liver Neoplasms
- Low Tension Glaucoma
- Lung carcinoma
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lymphatic Metastasis
- Lymphoma

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- Macular Degeneration
- Malaria
- Malignant melanoma
- Manganese Poisoning
- Medulloblastoma
- Melanoma
- Meningioma
- Mental Disorders
- Mesothelioma
- Metaplasia
- Micronuclei
- Microsatellite Instability
- Migraine Disorders
- Mitochondrial Diseases
- Motor Neuron Disease
- Mouth Neoplasms
- Multiple Chemical Sensitivity
- Multiple Myeloma
- Multiple Organ Failure
- Multiple Sclerosis
- Myelodysplastic Syndromes
- Myocardial Infarction
- Nasal Polyps
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness

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- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Neoplastic Syndromes
- Neovascularization
- Nephrotic Syndrome
- Nervous System Diseases
- Neuroblastoma
- Neuroma
- Neuropsychological Tests
- Neurotoxicity Syndromes
- Neutropenia
- Nevus
- Obesity
- Obstetric Labor
- Occupational Diseases
- Ocular Hypertension
- Oligodendroglioma
- Oligospermia
- Optic Atrophy
- Optic Nerve Diseases
- Oral Submucous Fibrosis
- Oropharyngeal Neoplasms
- Osteoarthritis
- Osteoporosis
- Osteosarcoma

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- Otorhinolaryngologic Neoplasms
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Pancreatitis
- Papillomavirus Infections
- Parkinson disease
- Peptic Ulcer
- Periodontitis
- Peripheral Nervous System Diseases
- Pharyngeal Neoplasms
- Pituitary Neoplasms
- Pleural Neoplasms
- Pneumoconiosis
- Pneumonia
- Poisoning
- Polycystic Ovary Syndrome
- Postoperative Complications
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prenatal Exposure Delayed Effects
- Presbycusis

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- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Proteinuria
- Pseudomonas Infections
- Psoriasis
- Psychiatric Status Rating Scales
- Psychological Tests
- Psychoses
- Psychotic Disorders
- Pterygium
- Pulmonary Disease
- Pulmonary Emphysema
- Radiation Injuries
- Raynaud Disease
- Reaction Time
- Rectal Neoplasms
- Recurrence
- Reperfusion Injury
- Respiration Disorders
- Respiratory Distress Syndrome
- Respiratory Hypersensitivity
- Respiratory Sounds
- Respiratory Tract Diseases
- Respiratory Tract Infections
- Respiratory Tract Neoplasms

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- Rhinitis
- Rosacea
- Sarcoma
- Schizophrenia
- Sepsis
- Shock
- Skin Diseases
- Skin Neoplasms
- Stomach Neoplasms
- Substance-Related Disorders
- Sunburn
- Testicular Neoplasms
- Thalassemia
- Thyroid Neoplasms
- Tobacco Use Disorder
- Translocation
- Trisomy
- Tuberculosis
- Tumor Virus Infections
- Urinary Bladder Neoplasms
- Urologic Neoplasms
- Uterine Cervical Neoplasms
- Uterine Neoplasms
- Varicocele
- Vitiligo
- Werner syndrome

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