

GSTM1 rabbit monoclonal antibody

Catalog # H00002944-K

Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human GSTM1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human GSTM1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human GSTM1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) ₂ , IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

Gene Info — GSTM1

Entrez GeneID	2944
GeneBank Accession#	GSTM1
Gene Name	GSTM1
Gene Alias	GST1, GSTM1-1, GSTM1a-1a, GSTM1b-1b, GTH4, GTM1, H-B, MGC26563, MU, MU-1
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 supergene families. 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 that belongs to the mu class. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding the mu class of enzymes are organized in a gene cluster on chromosome 1p13.3 and 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 certain drugs. Null mutations of this class mu gene have been linked with an increase in a number of cancers, likely due to an increased susceptibility to environmental toxins and carcinogens. Multiple protein isoforms are 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-aryltransferase glutathione S-transferase M1

Pathway

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

Disease

- [Abnormalities](#)
- [Abortion](#)
- [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](#)
- [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](#)
- [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](#)
- [Dermatitis](#)
- [Diabetes Mellitus](#)
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- [Eclampsia](#)
- [Edema](#)
- [Ehlers-Danlos Syndrome](#)
- [Emphysema](#)

- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [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](#)
- [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](#)
- [Inflammatory Bowel Diseases](#)
- [Intestinal Neoplasms](#)
- [Iron Overload](#)
- [Jaundice](#)
- [Keratosi](#)
- [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](#)
- [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](#)
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- [Myelodysplastic Syndromes](#)
- [Myocardial Infarction](#)
- [Nasal Polyps](#)

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- [Testicular Neoplasms](#)
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- [Translocation](#)
- [Trisomy](#)
- [Tuberculosis](#)
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- [Urinary Bladder Neoplasms](#)
- [Urologic Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Uterine Neoplasms](#)
- [Varicocele](#)

- [Vitiligo](#)
- [Werner syndrome](#)