

GSTM3 polyclonal antibody

Catalog # PAB7562

Size 100 ug

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of GSTM3.
Immunogen	A synthetic peptide corresponding to human GSTM3.
Sequence	RTQLIRLCYSSDHE
Host	Goat
Theoretical MW (kDa)	26.6
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:4000) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay

Gene Info — GSTM3

Entrez GeneID [2947](#)

Protein Accession# [NP_000840.2](#)

Gene Name GSTM3

Gene Alias GST5, GSTB, GSTM3-3, GTM3, MGC3310, MGC3704

Gene Description glutathione S-transferase mu 3 (brain)

Omim ID [138390](#)

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. Mutations of this class mu gene have been linked with a slight increase in a number of cancers, likely due to exposure with environmental toxins. Alternative splicing results in multiple transcript variants. [provided by RefSeq]

Other Designations GST class-mu 3|OTTHUMP00000013355|S-(hydroxyalkyl)glutathione lyase M3|brain GST|brain type mu-glutathione S-transferase|glutathione S-alkyltransferase M3|glutathione S-aryltransferase M3|glutathione S-aryltransferase M3|glutathione S-transferase M3 (b

Publication Reference

- [Gene variations in GSTM3 are a risk factor for Alzheimer's disease.](#)

Hong GS, Heun R, Jessen F, Popp J, Hentschel F, Kelemen P, Schulz A, Maier W, Kolsch H.

Neurobiology of Aging 2009 May; 30(5):691.

Pathway

- [Drug metabolism - cytochrome P450](#)

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

Disease

- [Adenocarcinoma](#)
- [Adenoma](#)
- [Alzheimer disease](#)
- [Asthma](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cognition](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Cystic fibrosis](#)
- [Delayed Graft Function](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Esophageal Neoplasms](#)

- [Eye Diseases](#)
- [Gallbladder Neoplasms](#)
- [Gallstones](#)
- [Genetic Predisposition to Disease](#)
- [Genomic Instability](#)
- [Glaucoma](#)
- [Glioma](#)
- [Hamartoma](#)
- [Head and Neck Neoplasms](#)
- [Hearing Loss](#)
- [Helicobacter Infections](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Laryngeal Neoplasms](#)
- [Leukoplakia](#)
- [Liver Diseases](#)
- [Liver Neoplasms](#)
- [Lung Diseases](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Meningioma](#)
- [Mesothelioma](#)

- [Mouth Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neuroma](#)
- [Neutropenia](#)
- [Osteosarcoma](#)
- [Otorhinolaryngologic Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatitis](#)
- [Parkinson disease](#)
- [Pharyngeal Neoplasms](#)
- [Pleural Neoplasms](#)
- [Prenatal Exposure Delayed Effects](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Respiratory Tract Diseases](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Werner syndrome](#)