

Mouse Glutathione S-Transferase Mu3 (GSTM3) Monoclonal Antibody | anti-GSTM3 antibody

Glutathione S-Transferase Mu3 (GSTM3)

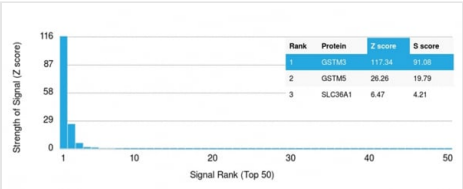
CATALOG # AAA214754	HOST Mouse	REACTIVITY Human. Others not tested.	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

Glutathione S-Transferase Mu3 (GSTM3); Monoclonal Antibody; brain GST antibody; brain type mu glutathione S transferase; GST class mu 3; GST5; GSTB; GSTM3-3; S (hydroxyalkyl)glutathione lyase M3; glutathione S transferase M3 (brain); anti-GSTM3 antibody

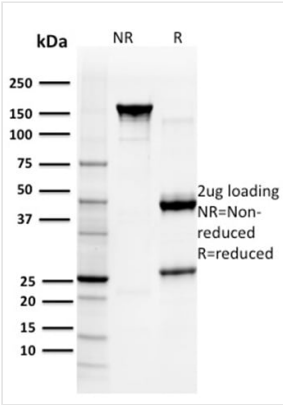
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not tested.
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	CPTC-GSTMu3-1
Specificity	Members of the glutathione S-transferase (GST) family of proteins function in the detoxification of xenobiotics to protect cells against toxicant-induced damage. There are eight families of GST proteins, namely alpha, zeta, theta, kappa, u, eta, sigma and omega, each of which are composed of proteins that have a variety of functions throughout the cell. The GSTM proteins (GSTM1-GSTM5 in human and GSTM1-GSTM7 in mouse) are members of the mu class of enzymes that conjugate with glutathione and function in the detoxification of carcinogens, environmental toxins and products of oxidative stress. 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. GSTM3 protein is selectively expressed in the testis and brain. GSTM3 may also be tumor suppressive in RCC, as low expression has been demonstrated to correlate with RCC risk and poor prognosis in post-op patients.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	225
Applicable Applications for anti-GSTM3 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant human full-length protein
Positive Control	HeLA cell lysate; Brain, testis and kidney
Cellular Localization	Cytoplasm.
Chromosome Location	1p13.3
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using Glutathione S-Transferase Mu3 (GSTM3) Mouse Monoclonal Antibody (CPTC-GSTMu3-1). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE
SDS-PAGE Analysis Purified GST Mu3 Mouse Monoclonal Antibody (CPTC-GSTMu3-1). Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

References	Raza, H., et al. 2002. Biochem. J. 366: 45-55.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	23065552
NCBI GeneID	2947
NCBI Accession #	NP_000840.2
NCBI GenBank Nucleotide #	NM_000849.4
UniProt Accession #	P21266; O60550; Q96HA3
Molecular Weight	Predicted: 26kDa Observed: 28kDA
NCBI Official Full Name	glutathione S-transferase Mu 3
NCBI Official Synonym Full Names	glutathione S-transferase mu 3
NCBI Official Symbol	GSTM3
NCBI Official Synonym Symbols	GST5; GSTB; GTM3; GSTM3-3
NCBI Protein Information	glutathione S-transferase Mu 3
UniProt Protein Name	Glutathione S-transferase Mu 3
UniProt Gene Name	GSTM3
UniProt Synonym Gene Names	GST5; hGSTM3-3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.