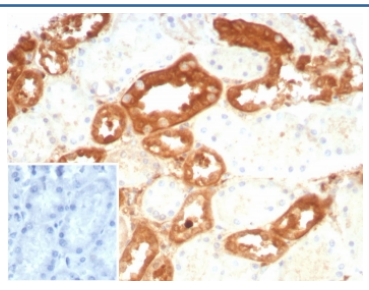
GST Mu 3 Antibody / Recombinant GSTM3 Antibody [clone rGSTM3/8878] (V4659)

Catalog No.	Formulation	Size
V4659-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4659-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4659SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

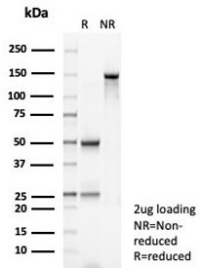
Recombinant | MOUSE MONOCLONAL

Bulk quote request

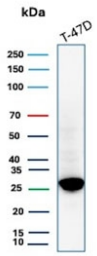
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG2b, kappa
Clone Name	rGSTM3/8878
Purity	Protein A/G affinity
UniProt	P21266
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Western blot: 2-4ug/ml
Limitations	This GST Mu 3 Antibody / Recombinant GSTM3 Antibody is available for research use only.



GST Mu 3 Antibody in Human Kidney IHC. Immunohistochemistry testing of GST Mu 3 Antibody / Recombinant GSTM3 Antibody in FFPE human kidney tissue. Heat-induced epitope retrieval was performed by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9, for 20 min followed by cooling prior to staining. The inset shows a matched negative control in which PBS was substituted for the primary antibody. This GST Mu 3 Antibody demonstrates detection of GSTM3 in human kidney tissue.



GST Mu 3 Antibody Purity Analysis by SDS-PAGE. Electrophoretic analysis of purified, BSA-free GST Mu 3 Antibody / Recombinant GSTM3 Antibody to evaluate antibody purity and integrity. The observed antibody protein pattern supports the purity and integrity of the recombinant monoclonal preparation.



GST Mu 3 Antibody in Human T-47D Breast Cancer Cells WB. Western blot testing of GST Mu 3 Antibody / Recombinant GSTM3 Antibody in human T-47D breast cancer cell lysate. A prominent band is detected at approximately 26 kDa, consistent with the expected molecular weight of GSTM3. This GST Mu 3 Antibody demonstrates detection of GSTM3 in human breast cancer cells.

Description

GST Mu 3 Antibody / Recombinant GSTM3 Antibody recognizes GSTM3, a cytosolic enzyme belonging to the mu class of glutathione S-transferases. GSTM3 contributes to cellular detoxification by catalyzing the conjugation of reduced glutathione to electrophilic compounds. This activity helps protect cells against reactive products generated by oxidative stress as well as environmental toxins, carcinogens and other xenobiotic compounds.

GSTM3 is one of several closely related mu class GST enzymes encoded within a gene cluster on chromosome 1. Members of this family participate in glutathione-dependent metabolism and cellular defense against potentially damaging chemical compounds. Mu class GST genes are polymorphic, and genetic variation can influence individual responses to environmental exposures and therapeutic agents. GSTM3 is therefore relevant to research involving toxicology, pharmacology, xenobiotic metabolism and oxidative stress.

GSTM3 has also been investigated in cancer biology, where changes in glutathione-dependent detoxification and antioxidant defense can influence cellular responses to carcinogens and oxidative damage. Altered GSTM3 expression and genetic variation have been studied in multiple malignancies. Reduced GSTM3 expression has received particular attention in renal cell carcinoma, where it has been associated with disease risk and clinical outcome. These observations connect GSTM3 biology with research into metabolic defense mechanisms, cellular stress and tumor development.

Clone rGSTM3/8878 is a recombinant mouse monoclonal antibody generated against full-length recombinant human GSTM3 and purified by Protein A/G affinity chromatography. NSJ Bioreagents provides this GST Mu 3 Antibody for research into glutathione-dependent metabolism, oxidative stress and GSTM3 biology. A Recombinant GSTM3 Antibody provides a defined monoclonal reagent for investigating this mu class detoxification enzyme.

For additional reagents and information on GSTM3-mediated detoxification and oxidative stress responses, visit our GSTM3 Antibody / Glutathione S-Transferase Mu 3 Antibody page.

Application Notes

Optimal dilution of the GST Mu 3 Antibody / Recombinant GSTM3 Antibody should be determined by the researcher.

Immunogen

Recombinant full-length human GSTM3 protein was used as the immunogen for the recombinant GSTM3 antibody.

Storage

Aliquot the recombinant GSTM3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

GST Mu 3 antibody, GSTM3 antibody, Glutathione S-Transferase Mu 3 antibody, recombinant GSTM3 antibody

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