Recombinant Glutathione S-Transferase Mu3 (GSTM3) Antibody

Mouse Monoclonal Antibody [Clone rGSTM3/8878]

Catalog No	Format	Size
2947-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2947-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2947-MSM3-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

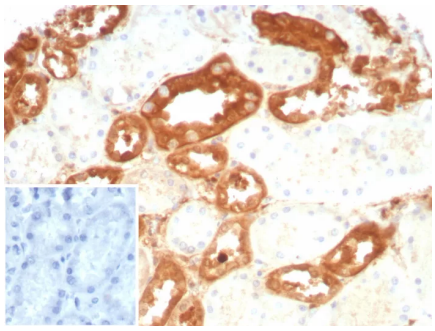
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

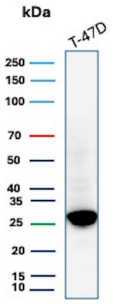
Clone	rGSTM3/8878
Immunogen	Recombinant full-length human GSTM3 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	26.56kDa
Cellular Localization	Cytoplasm
Species Reactivity	Human
Positive Control	Brain|T-47D, HeLa cell lysate. Human liver|testis or kidney.

**Optimal dilution for a specific application should be determined.*

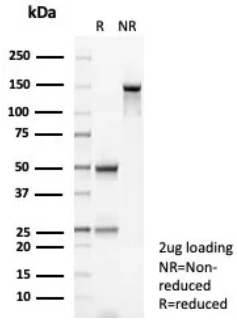
Product Images for Recombinant Glutathione S-Transferase Mu3 (GSTM3) Antibody



Formalin-fixed, paraffin-embedded human kidney stained with GST Mu3 Recombinant Mouse Monoclonal Antibody (rGSTM3/8878). Inset: PBS instead of primary antibody; secondary only negative control.



Western Blot Analysis of T-47D lysate using GSTM3 Mouse Monoclonal Antibody (rGSTM3/8878).



SDS-PAGE Analysis of Purified GST Mu3 Recombinant Mouse Monoclonal Antibody (rGSTM3/8878). Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

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 ?, Î ?, Î ?, Î ?, ?, ï ?, ï ? and ï ?, 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.

Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.