

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Glutathione S-Transferase mu 1/GSTM1 in ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 842516
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Glutathione S-Transferase mu 1/GSTM1 Met1-Lys218 Accession # P09488
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Glutathione S-Transferases (GSTs) are members of the phase II detoxification enzyme family that conjugate glutathione to various electrophilic compounds, including metabolites generated by oxidative processes in the body, environmental toxins or carcinogens, and anti-cancer drugs. GSTM1 is a cytosolic protein that belongs to the mu class of the GST superfamily. The gene encoding GSTM1 is mapped onto human chromosome 1p13.3 and is known to be highly polymorphic (1). Mostly notably, the widely occurring GSTM1-null genotype has been linked to a variety of cancers including lung (2), gastric (3), bladder (4) and prostate (5). In addition to its role in releasing oxidative stress, GSTM1 has also been suggested to act as a hormone binding protein and play a role in maintaining hormone homeostasis in the body (6, 7).

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