

Mouse Anti-GSTM2 (Glutathione S-Transferase Mu2) [MD107]: MC0407, MC0407RTU7

Intended Use: For Research Use Only

Description: 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.

Specifications:

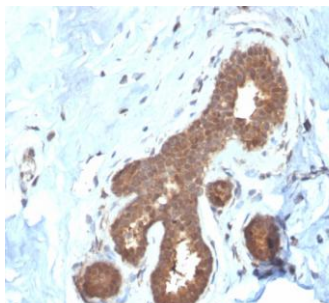
Clone: MD107
Source: Mouse
Isotype: IgG1k
Reactivity: Human
Immunogen: Recombinant human full-length GSTM2 protein
Localization: Cytoplasm
Formulation: Purified antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃).
Storage: Store at 2°- 8°C
Applications: IHC, WB
Package:

Description	Catalog No.	Size
GSTM2 Concentrated	MC0407	1 ml
GSTM2 Prediluted	MC0407RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Kidney, HeLa cell lysates, skeletal muscle extract
Concentrated Dilution: 50-200
Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human breast carcinoma stained with anti-GSTM2 using DAB

References:

1. Glutathione Conjugation at the Blood-CSF Barrier Efficiently Prevents Exposure of the Developing Brain Fluid Environment to Blood-Borne Reactive Electrophilic Substances. Kratzer I, et al. J Neurosci 38:3466-3479, 2018.
2. Integrated transcriptomic and proteomic analyses uncover regulatory roles of Nrf2 in the kidney. Shelton LM, et al. Kidney Int 88:1261-1273, 2015.