ARG58841
anti-GSTM1 antibody [11F2]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [11F2] recognizes GSTM1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	11F2
Isotype	IgG1
Target Name	GSTM1
Species	Human
Immunogen	Synthetic peptide corresponding to a sequence of Human GSTM1 (EEEKIRVDIL ENQTMDNHMQLGMICYNPEFEKLK).
Conjugation	Un-conjugated
Alternate Names	GST HB subunit 4; MU-1; GST class-mu 1; GST1; Glutathione S-transferase Mu 1; GSTM1-1; GSTM1a-1a; MU; GTH4; EC 2.5.1.18; GSTM1b-1b; H-B; GTM1

Application Instructions

Application table

Application	Dilution
FACS	1 - 3 µg/10^6 cells
IHC-P	0.5 - 1 µg/ml
WB	0.1 - 0.5 µg/ml

Application Note: IHC-P: Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0) for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

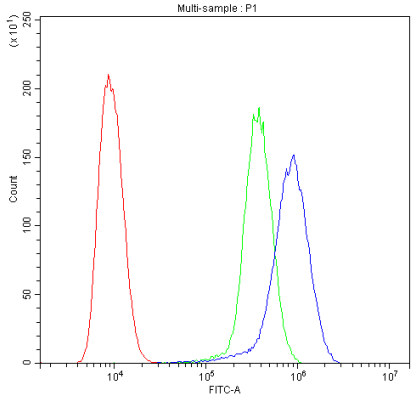
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

	freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

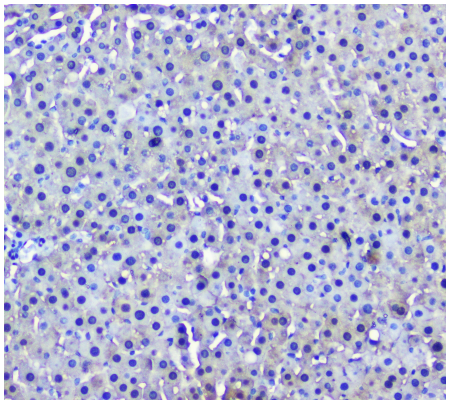
Gene Symbol	GSTM1
Gene Full Name	glutathione S-transferase mu 1
Background	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: 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. 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. [provided by RefSeq, Jul 2008]
Function	Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. [UniProt]
Calculated Mw	26 kDa

Images



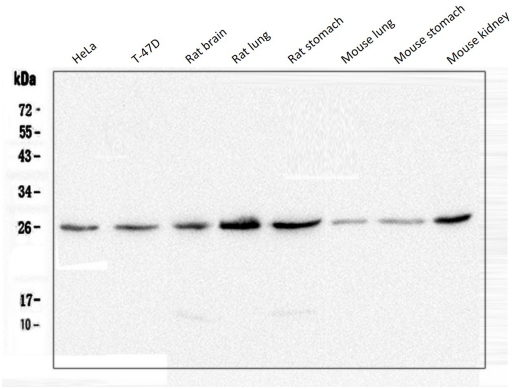
ARG58841 anti-GSTM1 antibody [11F2] FACS image

Flow Cytometry: U20S cells were blocked with 10% normal goat serum and then stained with ARG58841 anti-GSTM1 antibody [11F2] (blue) at 1 µg/10^6 cells for 30 min at 20°C, followed by DyLight®488 labelled secondary antibody. Isotype control antibody (green) was Mouse IgG (1 µg/10^6 cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



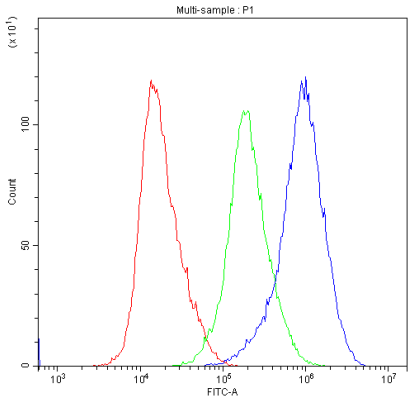
ARG58841 anti-GSTM1 antibody [11F2] IHC-P image

Immunohistochemistry: Paraffin-embedded Rat liver. Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG58841 anti-GSTM1 antibody [11F2] at 2 µg/ml, overnight at 4°C.



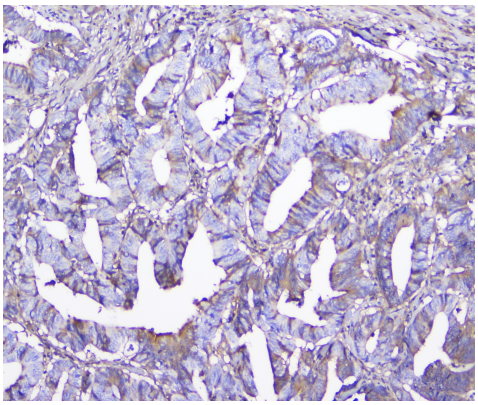
ARG58841 anti-GSTM1 antibody [11F2] WB image

Western blot: 50 µg of samples under reducing conditions. HeLa, T-47D, Rat brain, Rat lung, Rat stomach, Mouse lung, Mouse stomach and Mouse kidney lysates stained with ARG58841 anti-GSTM1 antibody [11F2] at 0.5 µg/ml, overnight at 4°C.



ARG58841 anti-GSTM1 antibody [11F2] FACS image

Flow Cytometry: HeLa cells were blocked with 10% normal goat serum and then stained with ARG58841 anti-GSTM1 antibody [11F2] (blue) at 1 µg/10^6 cells for 30 min at 20°C, followed by DyLight®488 labelled secondary antibody. Isotype control antibody (green) was Mouse IgG (1 µg/10^6 cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG58841 anti-GSTM1 antibody [11F2] IHC-P image

Immunohistochemistry: Paraffin-embedded Human colon cancer tissue. Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG58841 anti-GSTM1 antibody [11F2] at 2 µg/ml, overnight at 4°C.