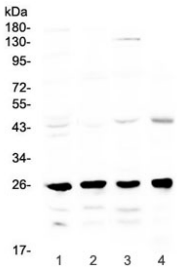
GSTM1 Antibody (RQ4036)

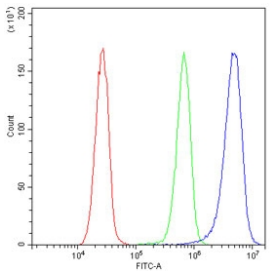
Catalog No.	Formulation	Size
RQ4036	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Predicted Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P09488
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/10^6 cells
Limitations	This GSTM1 antibody is available for research use only.



Western blot testing of 1) rat brain, 2) rat lung, 3) mouse stomach and 4) mouse kidney lysate with GSTM1 antibody at 0.5ug/ml. Predicted molecular weight ~26 kDa.



Flow cytometry testing of human HeLa cells with GSTM1 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= GSTM1 antibody.

Description

Glutathione S-transferase Mu 1 (gene name GSTM1) is a human glutathione S-transferase. 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.

Application Notes

Optimal dilution of the GSTM1 antibody should be determined by the researcher.

Immunogen

Amino acids EEEKIRVDILENQTMDNHMQLGMICYNPEFEKLK from the human protein were used as the immunogen for the GSTM1 antibody.

Storage

After reconstitution, the GSTM1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.