Datasheet for ABIN6141470

anti-GSTM3 antibody (AA 101-225)

2 Images

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Overview

Quantity:	100 µL
Target:	GSTM3
Binding Specificity:	AA 101-225
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GSTM3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 101-225 of human GSTM3 (NP_000840.2).
Sequence:	VDIIENQVMD FRTQLIRLCY SSDHEKLKPQ YLEELPGQLK QFSMFLGKFS WFAGEKLTFV DFLTYDILDQ NRIFDPKCLD EFPNLKAFMC RFEALEKIAA YLQSDQFCKM PINNKMAQWG NKPVC
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	GSTM3
Alternative Name:	GSTM3 (GSTM3 Products)
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. Mutations of this class mu gene have been linked with a slight increase in a number of cancers, likely due to exposure with environmental toxins. Alternative splicing results in multiple transcript variants.,GSTM3,GST5,GSTB,GSTM3-3,GTM3,Cancer,Signal Transduction,Endocrine & Metabolism,Drug metabolism,GSTM3
Molecular Weight:	26 kDa
Gene ID:	2947
UniProt:	P21266

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

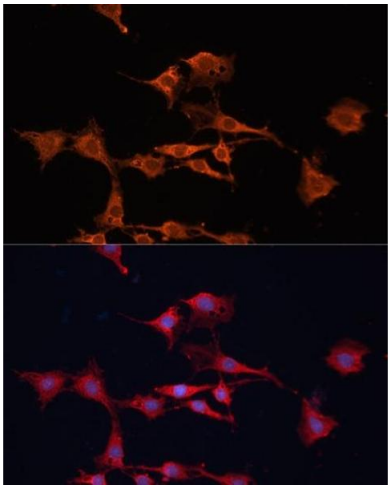
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Handling

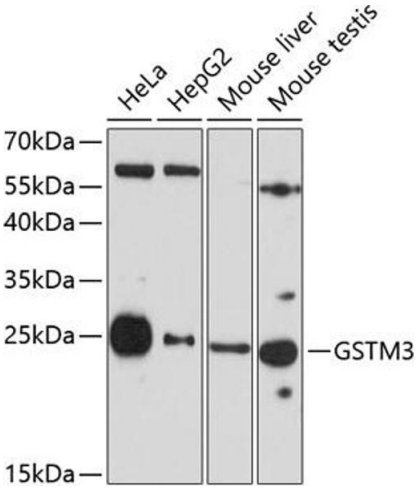
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Immunofluorescence

Image 1. Immunofluorescence analysis of C6 cells using GSTM3 antibody (ABIN6131967, ABIN6141470, ABIN6141471 and ABIN6223605) at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using GSTM3 antibody (ABIN6131967, ABIN6141470, ABIN6141471 and ABIN6223605) at 1:3000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 90s.