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# Datasheet for ABIN969180 anti-GSTM1 antibody

6 Images

1 Publication



### Overview

Quantity:	100 µL
Target:	GSTM1
Reactivity:	Human, Monkey
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS)

## Product Details

Immunogen:	Purified recombinant fragment of human GSTM1 expressed in E. coli.
Clone:	1H4A4
lsotype:	lgG1
Purification:	purified

## Target Details

Target:	GSTM1
Alternative Name:	GSTM1 (GSTM1 Products)
Background:	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,

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	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.
	Aliases: MU, H-B, GST1, GTH4, GTM1, MU-1, GSTM1-1, MGC26563, GSTM1a-1a, GSTM1b-1b
Molecular Weight:	26 kDa
Gene ID:	2944
HGNC:	2944
Pathways:	Negative Regulation of Transporter Activity
Application Details	
Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, FCM: 1:200 - 1:400
Restrictions:	For Research Use only
Handling	

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
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:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage
Publications	
Product cited in:	Jan, Adolfsson, Allaman, Buccarello, Magistretti, Pfeifer, Muhs, Lashuel: "Abeta42 neurotoxicity
	is mediated by ongoing nucleated polymerization process rather than by discrete Abeta42
	species." in: The Journal of biological chemistry, Vol. 286, Issue 10, pp. 8585-96, (2011) (

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#### PubMed).

Deshmukh, Salehzadeh, Metayer-Coustard, Fahlman, Nair, Al-Khalili: "Post-transcriptional gene silencing of ribosomal protein S6 kinase 1 restores insulin action in leucine-treated skeletal muscle." in: **Cellular and molecular life sciences : CMLS**, Vol. 66, Issue 8, pp. 1457-66, (2009) (PubMed).

#### Images



#### Western Blotting

**Image 1.** Western blot analysis using GSTM1 mouse mAb against Cos7 (1), MCF-7 (2), Jurkat (3), Hela (4), HL7702 (5) and HepG2 (6) cell lysate.

#### Western Blotting

**Image 2.** Western blot analysis using GSTM1 mAb against human GSTM1 (AA: 23-181) recombinant protein. (Expected MW is 25.7 kDa)

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### Images



#### **Flow Cytometry**

**Image 3.** Flow cytometric analysis of Jurkat cells using GSTM1 mouse mAb (green) and negative control (red).

Please check the product details page for more images. Overall 6 images are available for ABIN969180.

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