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Datasheet for ABIN2776984 anti-GSTM1 antibody (N-Term)

2 Images

2 Publications



Overview

Quantity:	100 µL
Target:	GSTM1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Rabbit, Guinea Pig, Horse, Goat, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GSTM1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human GSTM1
Sequence:	KKYTMGDAPD YDRSQWLNEK FKLGLDFPNL PYLIDGAHKI TQSNAILCYI
Predicted Reactivity:	Cow: 100%, Dog: 100%, Goat: 93%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 93%
Characteristics:	This is a rabbit polyclonal antibody against GSTM1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified
Target Details	
Target:	GSTM1

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Alternative Name:	GSTM1 (GSTM1 Products)
Background:	Cytosolic and membrane-bound forms of glutathione S-transferase are 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. GSTM1 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.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.
	Alias Symbols: GST1, GSTM1-1, GSTM1a-1a, GSTM1b-1b, GTH4, GTM1, H-B, MGC26563, MU,
	MU-1
	Protein Interaction Partner: GSTM3, UBC, IQCB1, MAP3K5, GSTM2, GSTM1,
	Protein Size: 218
Molecular Weight:	26 kDa
Gene ID:	2944
NCBI Accession:	NM_000561, NP_000552
UniProt:	P46439
Pathways:	Negative Regulation of Transporter Activity
Application Details	

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 218 AA

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Application Details

Restrictions:

For Research Use only

Handling

sucrose.Preservative:Sodium azidePrecaution of Use:This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE should be handled by trained staff only.Handling Advice:Avoid repeated freeze-thaw cycles.Storage:-20 °CStorage Comment:For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°		
Buffer:Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide a sucrose.Preservative:Sodium azidePrecaution of Use:This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCH should be handled by trained staff only.Handling Advice:Avoid repeated freeze-thaw cycles.Storage:-20 °CStorage Comment:For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°	Format:	Liquid
International actionsucrose.Preservative:Sodium azidePrecaution of Use:This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE should be handled by trained staff only.Handling Advice:Avoid repeated freeze-thaw cycles.Storage:-20 °CStorage Comment:For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°	Concentration:	Lot specific
Precaution of Use:This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE should be handled by trained staff only.Handling Advice:Avoid repeated freeze-thaw cycles.Storage:-20 °CStorage Comment:For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°	Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 $\%$ (w/v) sodium azide and 2 $\%$ sucrose.
Handling Advice:Avoid repeated freeze-thaw cycles.Storage:-20 °CStorage Comment:For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°	Preservative:	Sodium azide
Storage:-20 °CStorage Comment:For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°	Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°	Handling Advice:	Avoid repeated freeze-thaw cycles.
	Storage:	-20 °C
allquots to prevent freeze-thaw cycles.	Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in: Veerhuis, Boshuizen, Morbin, Mazzoleni, Hoozemans, Langedijk, Tagliavini, Langeveld, Eikelenboom: "Activation of human microglia by fibrillar prion protein-related peptides is enhanced by amyloid-associated factors SAP and C1q." in: **Neurobiology of disease**, Vol. 19, Issue 1-2, pp. 273-82, (2005) (PubMed).



Western Blotting

Image 1. WB Suggested Anti-GSTM1 Antibody Titration: 0.2-1 ug/ml Positive Control: Jurkat cell lysate

Western Blotting

Image 2. Host: Rabbit Target Name: GSTM1 Sample Tissue: Human Fetal Lung Antibody Dilution: 1.0ug/ml

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