

ARG63703 anti-GSTM1 / GSTM2 antibody

Package: 100 μg Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes GSTM1 / GSTM2	
Tested Reactivity	Hu	
Tested Application	WB	
Specificity	This antibody is expected to recognise both reported variants of human GSTM1 protein (NP_000552.2; NP_666533.1) and wil also recognise human GSTM2 protein (NP_000839.1).	
Host	Goat	
Clonality	Polyclonal	
Isotype	lgG	
Target Name	GSTM1 / GSTM2	
Species	Human	
Immunogen	CVFSKMAVWGNK	
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
	WB	1 - 3 μg/ml
Application Note	WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid	
Purification	Purified from goat serum by antigen affinity chromatography.	
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.	
Preservative	0.02% Sodium azide	
Stabilizer	0.5% BSA	
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.	

Bioinformation

Database links	GenelD: 2944 Human	
	Swiss-port # P09488 Human	
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]	
Research Area	Cell Biology and Cellular Response antibody; Controls and Markers antibody; Metabolism antibody; Signaling Transduction antibody	
Calculated Mw	26 kDa	

Images

	250kDa 150kDa 100kDa 75kDa 50kDa 37kDa	ARG63703 anti-GSTM1 / GSTM2 antibody WB image Western Blot: Human Lung lysate (35 μg protein in RIPA buffer) stained with ARG63703 anti-GSTM1 / GSTM2 antibody at 0.3 μg/ml dilution.
- 1	25kDa 20kDa	
	15kDa	
	10kDa	