

Product datasheet for **TA346231**

GSTM2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB, IHC
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-GSTM2 antibody: synthetic peptide directed towards the N terminal of human GSTM2. Synthetic peptide located within the following region: TQSNAILRYIARKHNLCGESEKEQIREIDILENQFMDSRMQLAKLCYDPDF
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	26 kDa
Gene Name:	glutathione S-transferase mu 2 (muscle)
Database Link:	NP_000839 Entrez Gene 2946 Human P28161



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Background:

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. GSTM2 is 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.

Synonyms:

GST4; GSTM; GSTM2-2; GTHMUS

Note:

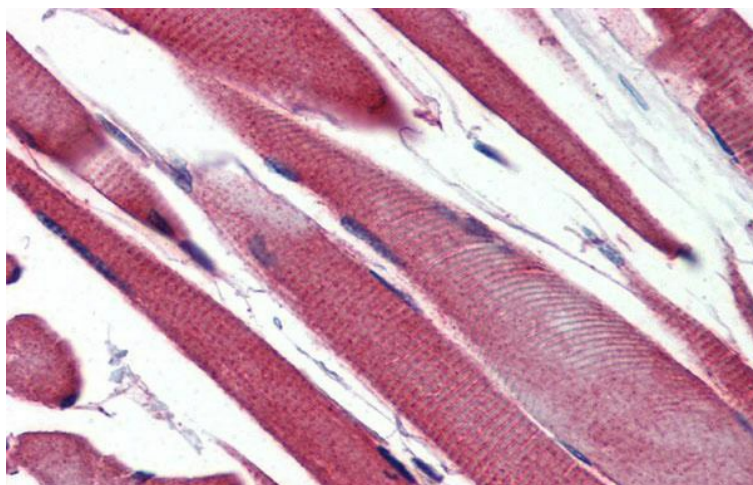
Immunogen Sequence Homology: Human: 100%; Zebrafish: 79%

Protein Pathways:

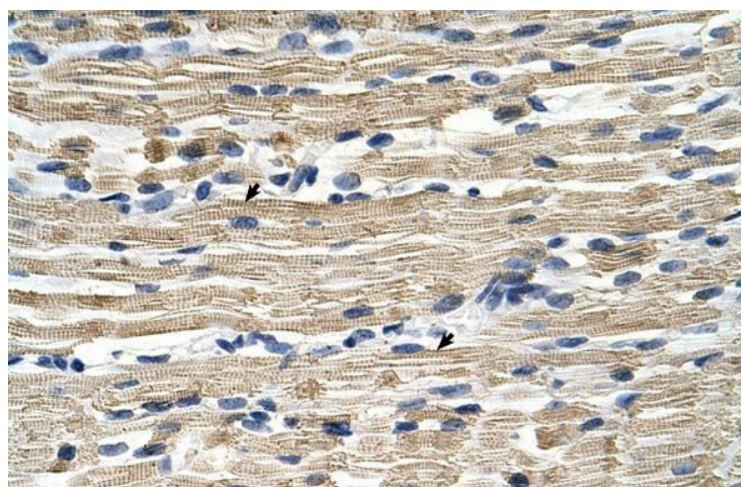
Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450

Product images:

WB Suggested Anti-GSTM2 Antibody Titration:
0.2-1 ug/ml; Positive Control: Human Liver



Immunohistochemistry with Human Skeletal Muscle lysate tissue at an antibody concentration of 5.0 ug/ml using anti-GSTM2 antibody



Rabbit Anti-GSTM2 Antibody; Paraffin Embedded Tissue: Human Muscle; Cellular Data: Skeletal muscle cells; Antibody Concentration: 4.0-8.0 ug/ml; Magnification: 400X