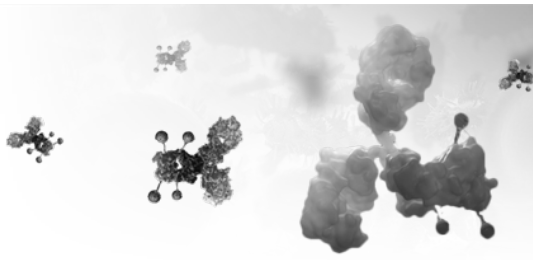

Anti-GSTM3 polyclonal antibody (DPAB-DC1489)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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, 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 individuals 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.
Immunogen	A synthetic peptide corresponding to human GSTM3. The sequence is RTQLIRLCYSSDHE
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen affinity purification
Conjugate	Unconjugated
Applications	ELISA,
Format	Liquid
Concentration	0.5 mg/mL
Size	100 µg

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Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Preservative	0.02% Sodium Azide
Storage	Store at -20°C.Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	GSTM3 glutathione S-transferase mu 3 (brain) [Homo sapiens (human)]
Official Symbol	GSTM3
Synonyms	GSTM3; glutathione S-transferase mu 3 (brain); GST5; GSTB; GTM3; GSTM3-3; glutathione S-transferase Mu 3; hGSTM3-3; brain GST; GST class-mu 3; glutathione S-transferase, Mu-3; glutathione S-aryltransferase M3; glutathione S-alkyltransferase M3; glutathione S-aralkyltransferase M3; S-(hydroxyalkyl)glutathione lyase M3; glutathione S-transferase M3 (brain); brain type mu-glutathione S-transferase;
Entrez Gene ID	2947
Protein Refseq	NP_000840
UniProt ID	P21266
Chromosome Location	1p13.3
Pathway	Biological oxidations; Chemical carcinogenesis; Drug metabolism - cytochrome P450; Glutathione conjugation
Function	enzyme binding; glutathione binding; glutathione transferase activity; identical protein binding

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