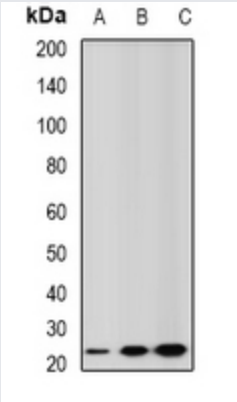
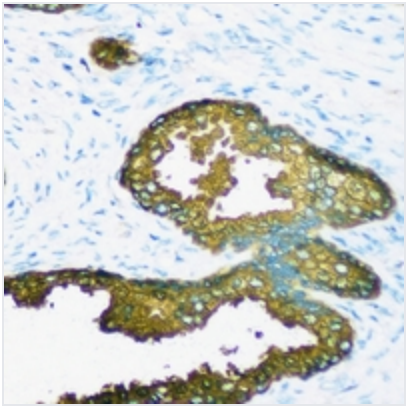
GSTA2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GSTA2, Polyclonal Antibody
Full Product Name	Anti-GSTA2 Antibody
Product Gene Name	anti-GSTA2 antibody
Product Synonym Names	GST2; Glutathione S-transferase A2; GST HA subunit 2; GST class-alpha member 2; GST-gamma; GSTA2-2; GTH2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of GSTA2 protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	25,664 Da
OMIM	138360
3D Structure	ModBase 3D Structure for P09210
Immunogen	Recombinant full length protein of human GSTA2
Applications Tested/Suitable for anti-GSTA2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-GSTA2 antibody	WB: 1/500 - 1/2000; IHC: 1/50 - 1/200
Related Product Information for anti-GSTA2 antibody	MBS8245710 is an antibody targeting GSTA2. Reactive in Human. Host: Rabbit. Rabbit polyclonal antibody to GSTA2
Other Notes	Small volumes of anti-GSTA2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-GSTA2 antibody
Western blot analysis of GSTA2 expression in mouse liver (A), mouse testis (B), rat kidney (C) whole cell lysates.



Immunohistochemistry (IHC) of anti-GSTA2 antibody
Immunohistochemical analysis of GSTA2 staining in human prostate cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GSTA2. It may not necessarily be applicable to this product.

NCBI GI #	215276987
NCBI GeneID	2939
NCBI Accession #	NP_000837.3
UniProt Primary Accession #	P09210
UniProt Secondary Accession #	Q12759; Q16491; Q9NTY6
UniProt Related Accession #	P09210
GenBank Nucleotide #	NM_000846.4
NCBI Official Full Name	glutathione S-transferase A2
NCBI Official Synonym Full Names	glutathione S-transferase alpha 2
NCBI Official Symbol	GSTA2
NCBI Official Synonym Symbols	GST2; GTA2; GTH2; GSTA2-2
UniProt Protein Name	Glutathione S-transferase A2
UniProt Synonym Protein Names	GST HA subunit 2; GST class-alpha member 2; GST-gamma; GSTA2-2; GTH2
Protein Family	Glutathione S-transferase
UniProt Gene Name	GSTA2
UniProt Synonym Gene Names	GST2
UniProt Entry Name	GSTA2_HUMAN
NCBI Protein Information	glutathione S-transferase A2

NCBI Summary for GSTA2	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes function in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding these enzymes 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 some drugs. 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-tranferase belonging to the alpha class. The alpha class genes, located in a cluster mapped to chromosome 6, are the most abundantly expressed glutathione S-transferases in liver. In addition to metabolizing bilirubin and certain anti-cancer drugs in the liver, the alpha class of these enzymes exhibit glutathione peroxidase activity thereby protecting the cells from reactive oxygen species and the products of peroxidation. [provided by RefSeq, Jul 2008]
UniProt Comments for GSTA2	GSTA2: Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Belongs to the GST superfamily. Alpha family. Protein type: EC 2.5.1.18; Transferase; Xenobiotic Metabolism - metabolism by cytochrome P450; Xenobiotic Metabolism - drug metabolism - cytochrome P450; Other Amino Acids Metabolism - glutathione Chromosomal Location of Human Ortholog: 6p12.1 Cellular Component: cytosol Molecular Function: glutathione transferase activity; protein binding Biological Process: epithelial cell differentiation; glutathione metabolic process
Research Articles on GSTA2	**1.** the GSTA2 S112T polymorphism is predictive of transplant outcome in patients receiving busulfan in the preparative regimen, at least in association with cyclophosphamide.
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