

Product datasheet for **CF501903**

GSTA4 Mouse Monoclonal Antibody [Clone ID: OTI3F5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3F5
Applications:	FC, IHC, WB
Recommended Dilution:	WB: 1:500-1:2000, FLOW: 1:100, IHC: 1:50-1:150
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human GSTA4 (NP_001503) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	25.5 kDa
Gene Name:	Homo sapiens glutathione S-transferase alpha 4 (GSTA4), mRNA.
Database Link:	NP_001503 Entrez Gene 2941 Human O15217



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Background:

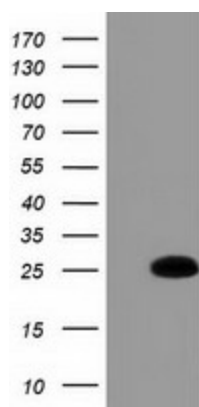
Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes are involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-transferase belonging to the alpha class. The alpha class genes, which are located in a cluster on chromosome 6, are highly related and encode enzymes with glutathione peroxidase activity that function in the detoxification of lipid peroxidation products. Reactive electrophiles produced by oxidative metabolism have been linked to a number of degenerative diseases including Parkinson's disease, Alzheimer's disease, cataract formation, and atherosclerosis.

Synonyms:

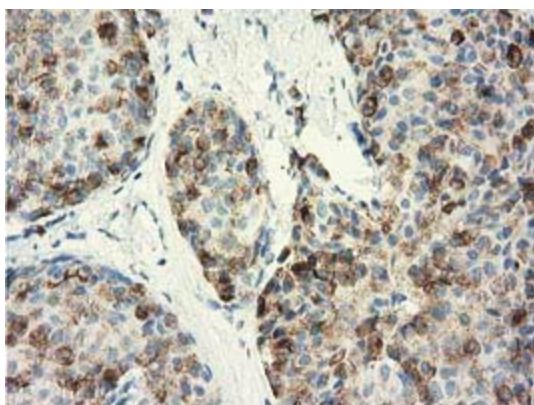
GSTA4-4; GTA4

Protein Pathways:

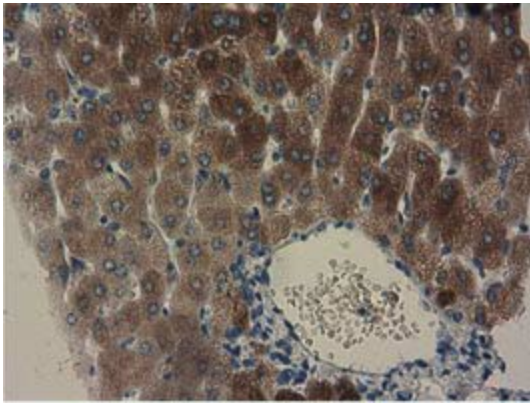
Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450

Product images:

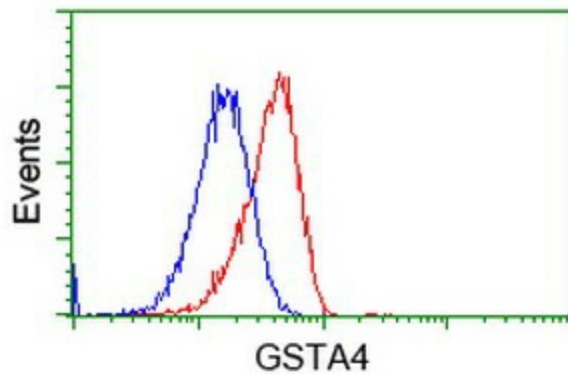
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GSTA4 (Cat# [RC202130], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GSTA4 (Cat# [TA501903]). Positive lysates [LY400591] (100ug) and [LC400591] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-GSTA4 mouse monoclonal antibody at 1:150 ([TA501903])



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-GSTA4 mouse monoclonal antibody at 1:150 ([TA501903])



Flow cytometric Analysis of HeLa cells, using anti-GSTA4 antibody ([TA501903]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).