

## Product datasheet for **CF501882**

### Glutathione S Transferase theta 2 (GSTT2) Mouse Monoclonal Antibody [Clone ID: OTI4F9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4F9
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:500~2000, IF 1:100, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human GSTT2 (NP_000845) 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:	27.3 kDa
Gene Name:	Homo sapiens glutathione S-transferase theta 2 (gene/pseudogene) (GSTT2), transcript variant 1, coding, mRNA.
Database Link:	<a href="#">NP_000845</a> <a href="#">Entrez Gene 2953 Human</a> <a href="#">P0CG29</a>



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**Background:**

Glutathione S-transferase (GSTs) theta 2 (GSTT2) is a member of a superfamily of proteins that catalyze the conjugation of reduced glutathione to a variety of electrophilic and hydrophobic compounds. Human GSTs can be divided into five main classes: Alpha, Mu, Pi, Theta, and Zeta. The theta class members GSTT1 and GSTT2 share 55% amino acid sequence identity and both are thought to have an important role in human carcinogenesis. The theta genes have a similar structure, being composed of five exons with identical exon/intron boundaries. [provided by RefSeq]

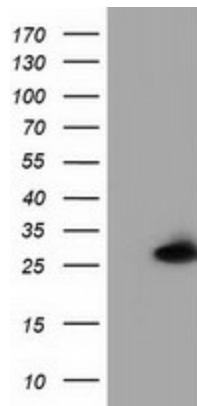
**Synonyms:**

GSTT2B

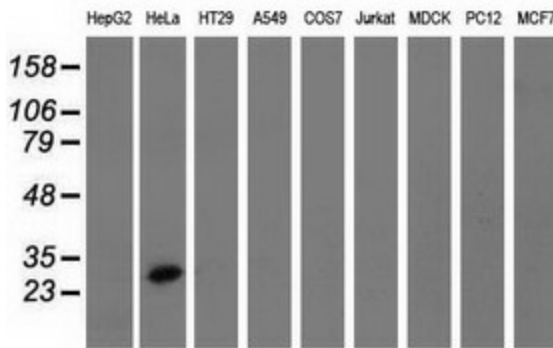
**Protein Pathways:**

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

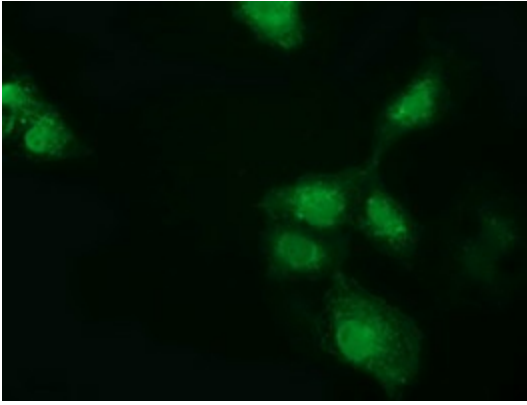
**Product images:**



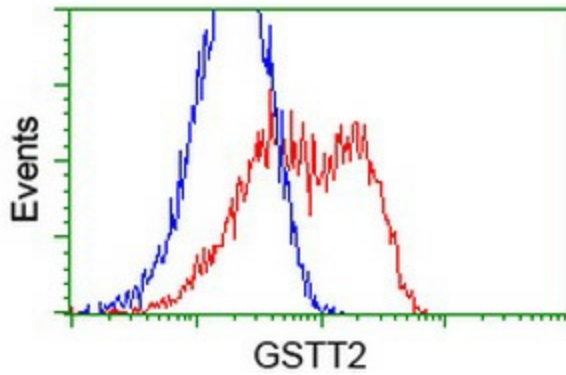
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GSTT2 ([RC200040], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GSTT2. Positive lysates [LY424485] (100ug) and [LC424485] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-GSTT2 monoclonal antibody.



Anti-GSTT2 mouse monoclonal antibody ([TA501882]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY GSTT2 ([RC200040]).



HEK293T cells transfected with either [RC200040] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-GSTT2 antibody ([TA501882]), and then analyzed by flow cytometry.