

## Product datasheet for **TA501936BM**

### Glutathione Synthetase (GSS) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI2F2]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI2F2   |
| Applications:           | FC, IF, WB   |
| Recommended Dilution:   | WB 1:500~2000, IF 1:100, FLOW 1:100  |
| Reactivity:             | Human, Dog, Rat, Mouse   |
| Host:                   | Mouse  |
| Isotype:                | IgG1   |
| Clonality:              | Monoclonal   |
| Immunogen:              | Full length human recombinant protein of human GSS (NP_000169) produced in HEK293T cell.   |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol.  |
| Concentration:          | 0.5 mg/ml  |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| Conjugation:            | HRP  |
| Storage:                | Store at -20°C as received.  |
| Stability:              | Stable for 12 months from date of receipt.   |
| Predicted Protein Size: | 52.2 kDa   |
| Gene Name:              | glutathione synthetase   |
| Database Link:          | <a href="#">NP_000169</a><br><a href="#">Entrez Gene 14854 Mouse</a> <a href="#">Entrez Gene 25458 Rat</a> <a href="#">Entrez Gene 442962 Dog</a> <a href="#">Entrez Gene 2937 Human</a><br><a href="#">P48637</a> |



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**Background:**

Glutathione is important for a variety of biological functions, including protection of cells from oxidative damage by free radicals, detoxification of xenobiotics, and membrane transport. The protein encoded by this gene functions as a homodimer to catalyze the second step of glutathione biosynthesis, which is the ATP-dependent conversion of gamma-L-glutamyl-L-cysteine to glutathione. Defects in this gene are a cause of glutathione synthetase deficiency. [provided by RefSeq]

**Synonyms:**

GSHS; HEL-S-64p; HEL-S-88n

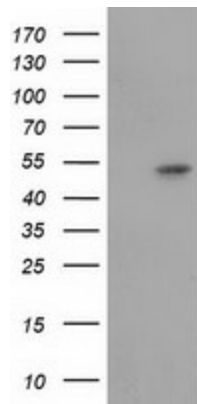
**Protein Families:**

Druggable Genome

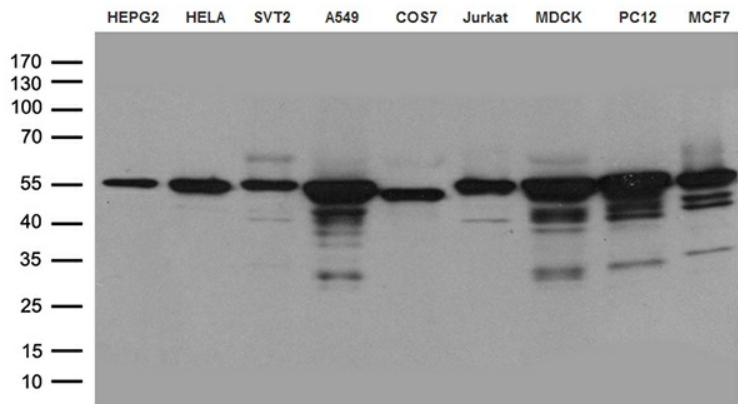
**Protein Pathways:**

Glutathione metabolism, Metabolic pathways

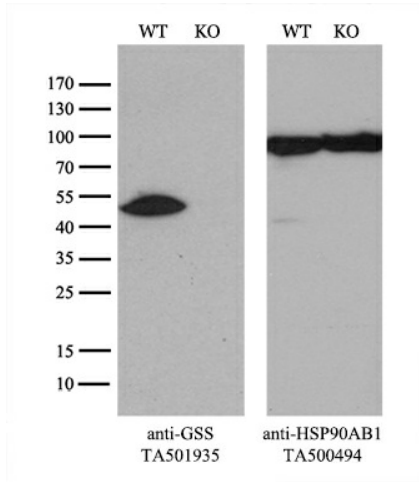
**Product images:**



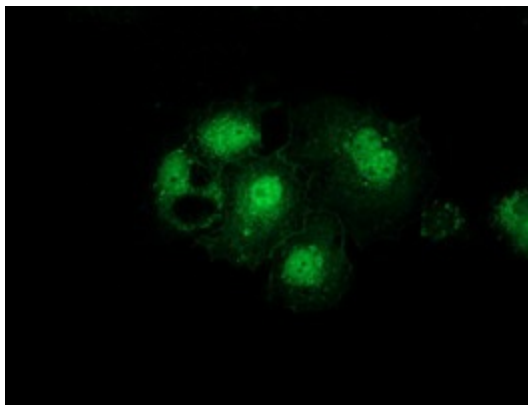
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GSS ([RC203174], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GSS. Positive lysates [LY424876] (100ug) and [LC424876] (20ug) can be purchased separately from OriGene.



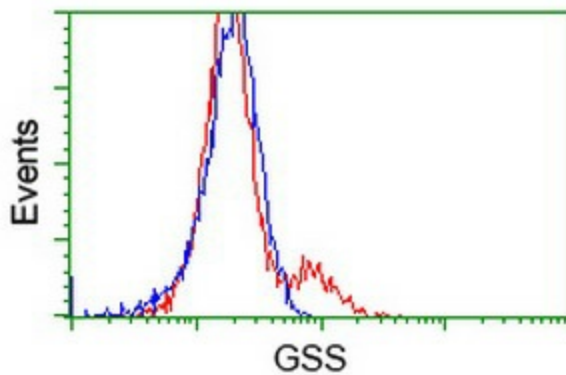
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-GSS monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:500).



Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and GSS-Knockout 293T cells (KO, Cat# [LC811047]) were separated by SDS-PAGE and immunoblotted with anti-GSS monoclonal antibody [TA501936], (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control.



Anti-GSS mouse monoclonal antibody ([TA501936]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY GSS ([RC203174]).



HEK293T cells transfected with either [RC203174] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-GSS antibody ([TA501936]), and then analyzed by flow cytometry.