

Anti-Glutathione Synthetase Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

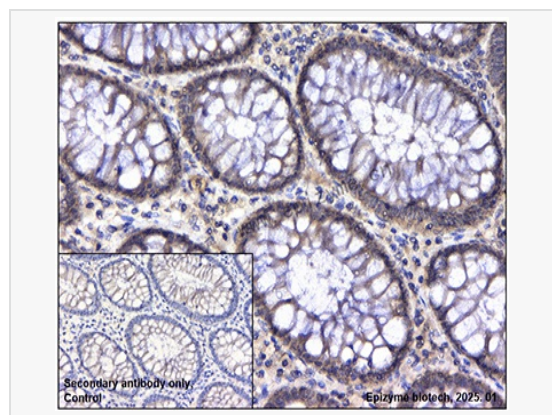
Catalog # M900054

Product Information

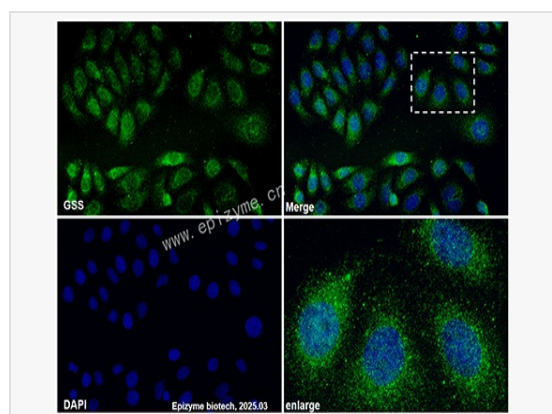
Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Mouse
Clonality	Monoclonal
Clone No.	77M64C82
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Glutathione Synthetase
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Glutathione Synthetase Mouse mAb [77M64C82] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Glutathione synthetase; GSH synthetase; GSH-S; Glutathione synthase; GSS.
Calculated MW	Calculated MW: 50, 81 kDa; Observed MW: 50, 81 kDa
Uniprot ID	P48637
Gene ID	2937
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, Jul 2008]



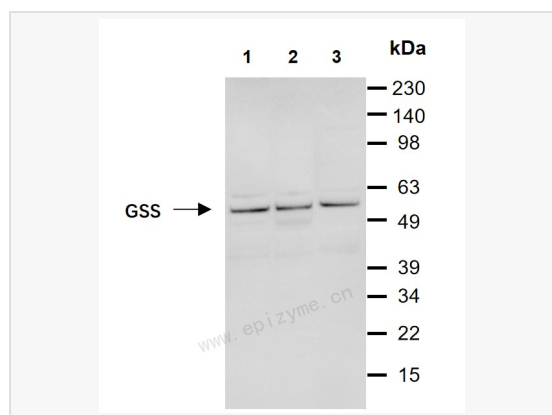
Immunohistochemistry - Anti-Glutathione Synthetase Mouse mAb [77M64C82]
 Sample: Paraformaldehyde-fixed, paraffin embedded human colon cancer tissue
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
 Primary antibody: M900054 at 1:100 dilution
 Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution
 DAB was used as the chromogen.
 Counter stained with hematoxylin.
 Positive/negative staining were presented.
 Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-Glutathione Synthetase Mouse mAb [77M64C82]
 Sample: HeLa cells
 The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
 Primary antibody: M900054 at 1:100 dilution
 Secondary antibody: Goat anti-Mouse (488) at 1:1,000 dilution (shown in green)
 Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-Glutathione Synthetase Mouse mAb [77M64C82]
 All lanes: M900054 at 1:1,000 dilution
 Lane 1: 293T (Human embryonic kidney cell) whole cell lysates
 Lane 2: Lysates from 293T cells overexpressing GSS
 Lysates/proteins at 10 µg per lane.
 Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution
 Predicted band size: 81 kDa
 Observed band size: 81 kDa
 Developed using the ECL technique (Cat. No. SQ201).



Western Blot - Anti-Glutathione Synthetase Mouse mAb [77M64C82]
 All lanes: M900054 at 1:1,000 dilution
 Lane 1: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
 Lane 2: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
 Lane 3: T24 (Human bladder cancer epithelial cell) whole cell lysates
 Lysates/proteins at 20 µg per lane.
 Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution
 Predicted band size: 50 kDa
 Observed band size: 50 kDa
 Developed using the ECL technique (Cat. No. SQ201).