

#### OriGene Technologies, Inc.

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# Product datasheet for CF507318

## GCLC Mouse Monoclonal Antibody [Clone ID: OTI1A3]

#### Product data:

Product Type:	Primary Antibodies	
Clone Name:	OTI1A3	
Applications:	IHC, WB	
Recommended Dilution:	WB 1:200~1000, IHC 1:150	
Reactivity:	Human, Rat, Monkey, Mouse	
Host:	Mouse	
lsotype:	lgG1	
Clonality:	Monoclonal	
Immunogen:	Full length human recombinant protein of human GCLC(NP_001489) 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:	72.6 kDa	
Gene Name:	glutamate-cysteine ligase catalytic subunit	
Database Link:	<u>NP 001489</u> <u>Entrez Gene 14629 MouseEntrez Gene 25283 RatEntrez Gene 710508 MonkeyEntrez Gene</u> <u>2729 Human</u> <u>P48506</u>	



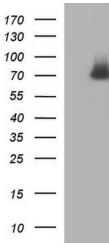
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### GCLC Mouse Monoclonal Antibody [Clone ID: OTI1A3] – CF507318

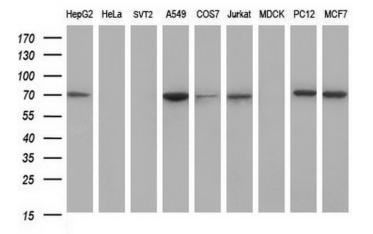
Background:	Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase is the first rate-
	limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy
	catalytic subunit and a light regulatory subunit. This locus encodes the catalytic subunit, while
	the regulatory subunit is derived from a different gene located on chromosome 1p22-p21.
	Mutations at this locus have been associated with hemolytic anemia due to deficiency of
	gamma-glutamylcysteine synthetase and susceptibility to myocardial infarction. [provided by
	RefSeq, Oct

Synonyms:	GCL; GCS; GLCL; GLCLC
Protein Families:	Druggable Genome
Protein Pathways:	Glutathione metabolism, Metabolic pathways

#### **Product images:**

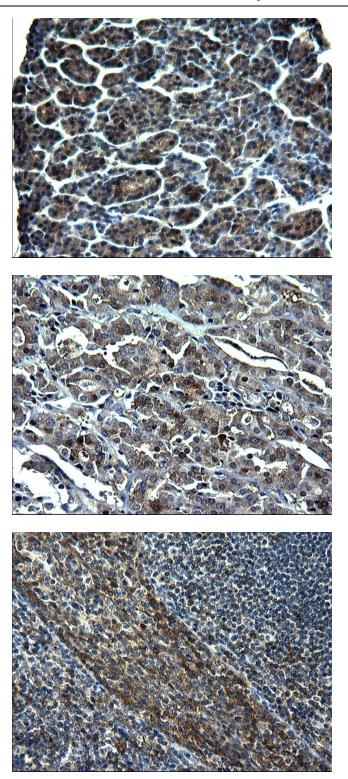


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GCLC (Cat# [RC207915], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GCLC(Cat# [TA507318]). Positive lysates [LY419901] (100ug) and [LC419901] (20ug) can be purchased separately from OriGene.



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

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Immunohistochemical staining of paraffinembedded Human pancreas tissue within the normal limits using anti-GCLC mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA507318])

Immunohistochemical staining of paraffinembedded Carcinoma of Human thyroid tissue using anti-GCLC mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA507318])

Immunohistochemical staining of paraffinembedded Human lymph node tissue within the normal limits using anti-GCLC mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA507318])

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