

Product datasheet for TA507318

GCLC Mouse Monoclonal Antibody [Clone ID: OTI1A3]

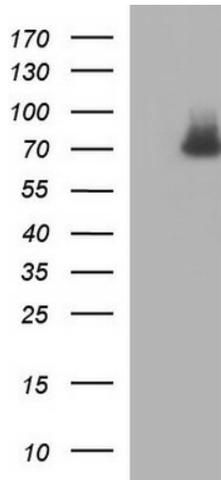
Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1A3
Applications:	IHC, WB
Recommend Dilution:	WB 1:200~1000, IHC 1:150
Reactivity:	Human, Monkey, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human GCLC(NP_001489) produced in HEK293T cell.
Formulation:	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Predicted Protein Size:	72.6 kDa
Gene Name:	glutamate-cysteine ligase catalytic subunit
Database Link:	NP_001489 Entrez Gene 25283 RatEntrez Gene 710508 MonkeyEntrez Gene 2729 Human
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

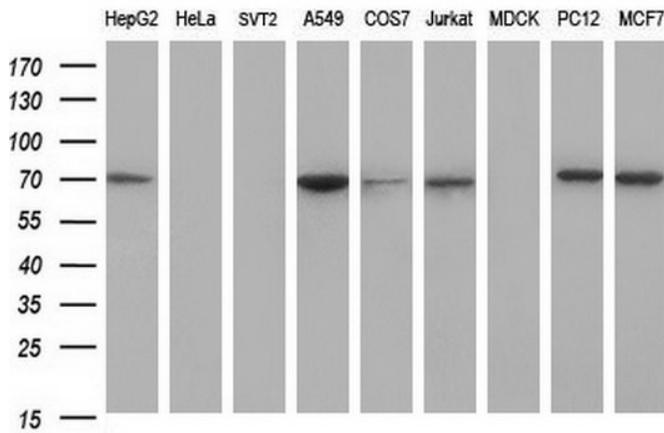


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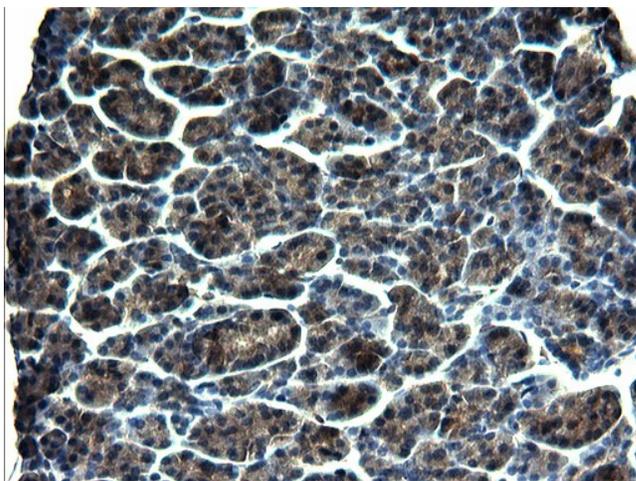
Product images:



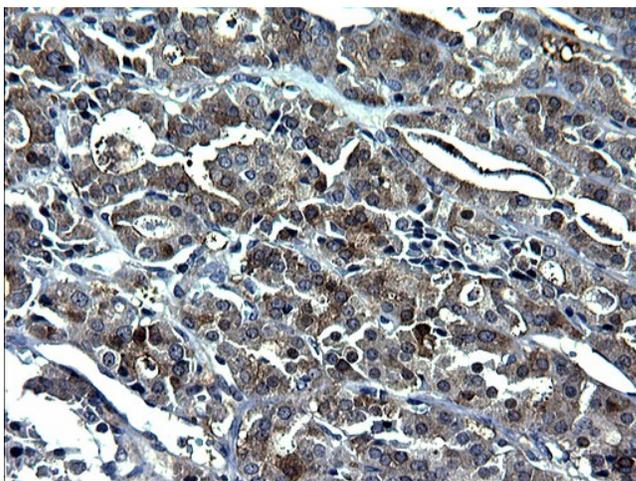
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GCLC ([RC207915], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GCLC. Positive lysates [LY419901] (100ug) and [LC419901]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



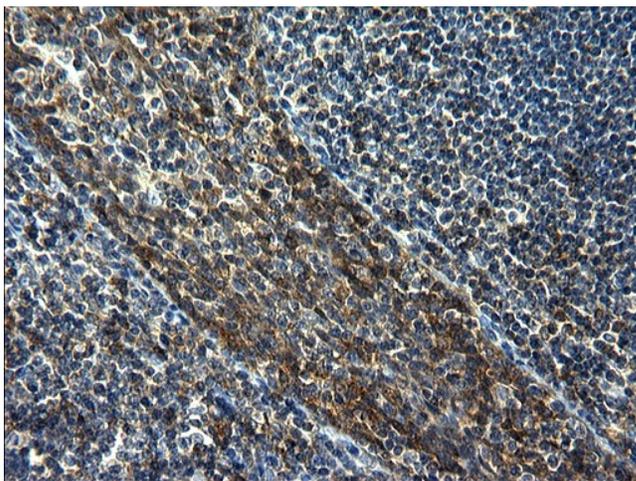
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-GCLC monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



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



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



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