OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for CF500700

Glutamine Synthetase (GLUL) Mouse Monoclonal Antibody [Clone ID: OTI1F4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1F4
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:1000~2000, IHC 1:50, IF 1:50~100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human GLUL (NP_002056) 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:	41.9 kDa
Gene Name:	glutamate-ammonia ligase
Database Link:	NP_002056 Entrez Gene 14645 MouseEntrez Gene 24957 RatEntrez Gene 2752 Human P15104

Background: The protein encoded by this gene belongs to the glutamine synthetase family. It catalyzes the synthesis of glutamine from glutamate and ammonia. Glutamine is a main source of energy and is involved in cell proliferation, inhibition of apoptosis, and cell signaling. This gene is expressed during early fetal stages, and plays an important role in controlling body pH by removing ammonia from circulation. Mutations in this gene are associated with congenital glutamine deficiency. Several alternatively spliced transcript variants have been found for this gene.

Synonyms: GLNS; GS; PIG43; PIG59

Protein Pathways: Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, Metabolic pathways, Nitrogen metabolism

Product images:

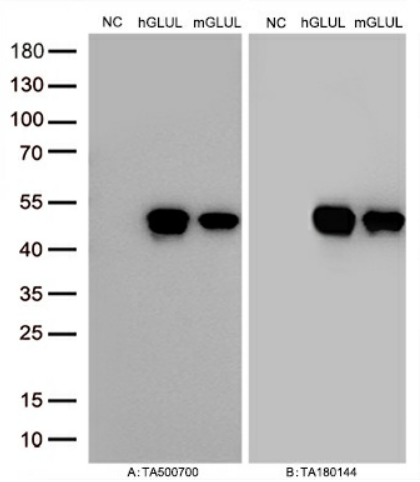


Figure A, Western blot analysis of overexpressed lysates (5ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC), human GLUL plasmid ([RC204161], hGLUL), mouse GLUL plasmid ([MR205788], mGLUL) using anti-GLUL antibody [TA500700] (1:20000@1mg/ml). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:10000@1mg/ml).

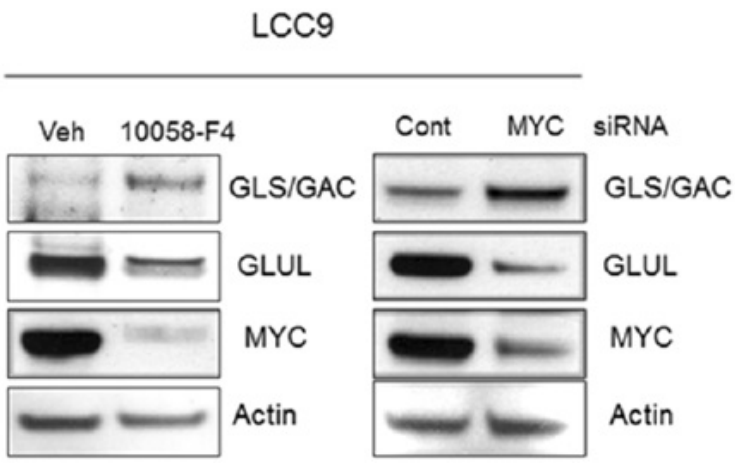
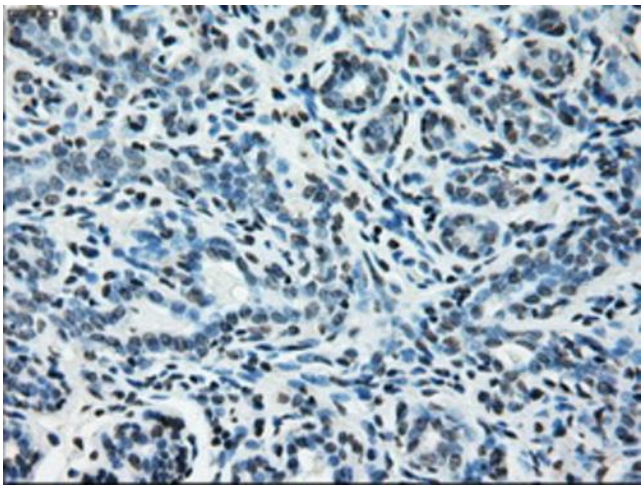
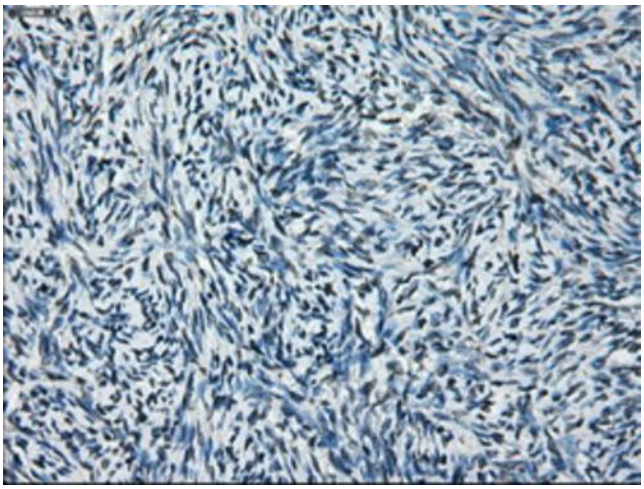


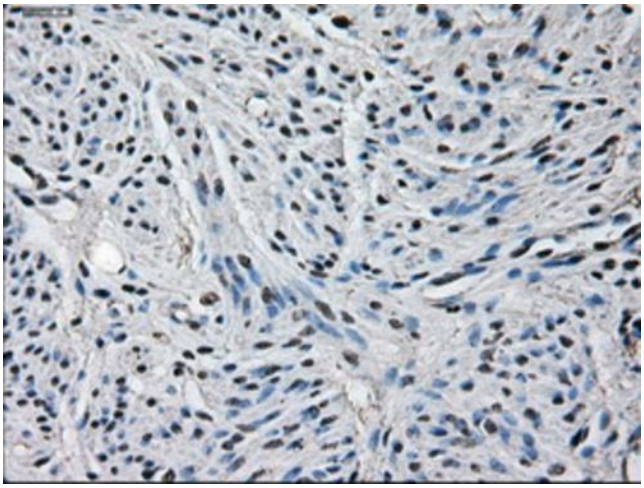
Figure from citation: Western blot analysis of GLUL protein level by using anti-GLUL antibody in LCC9 cells were treated with 10058-F4 (25 uM) or vehicle for 48 h or transfected with MYC or control siRNA for 48 h. Knockdown of MYC increased GLS/GAC levels and decreased GLUL levels. View Citation



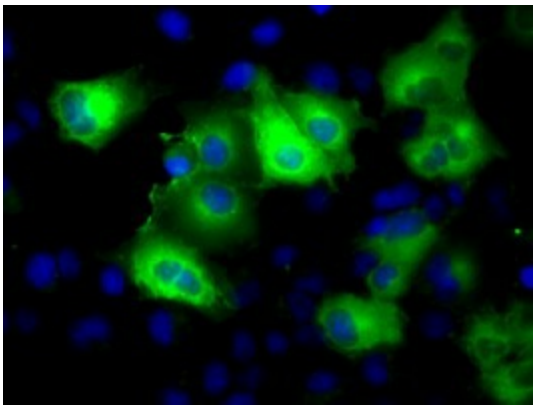
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-GLUL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



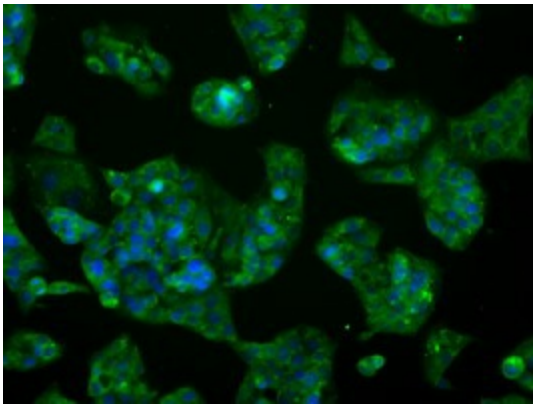
Immunohistochemical staining of paraffin-embedded Human Ovary tissue within the normal limits using anti-GLUL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



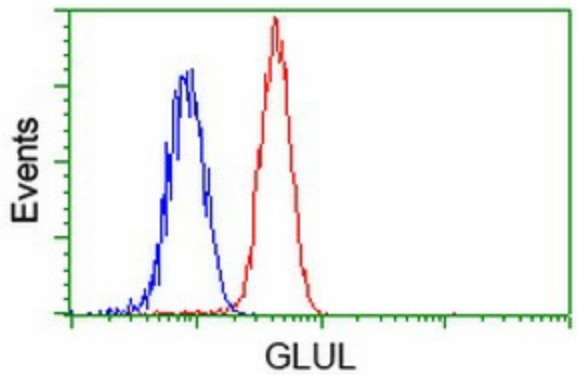
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-GLUL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



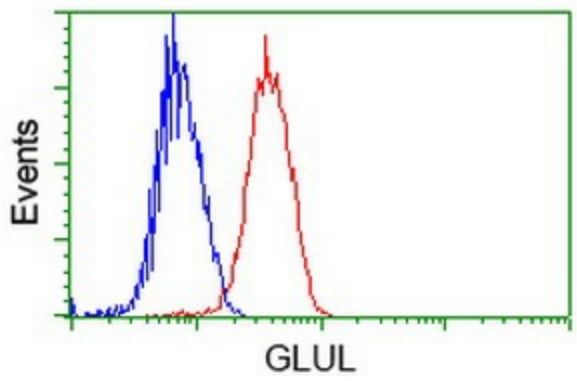
Anti-GLUL mouse monoclonal antibody ([TA500700]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY GLUL ([RC204161]).



Immunofluorescent staining of HepG2 cells using anti-GLUL mouse monoclonal antibody ([TA500700]).



Flow cytometric Analysis of Hela cells, using anti-GLUL antibody ([TA500700]), (Red), compared to a nonspecific negative control antibody, (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-GLUL antibody ([TA500700]), (Red), compared to a nonspecific negative control antibody, (Blue).