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

Catalog Number: M03191-1

Overview

Product Name	Anti-Glutamine Synthetase (GLUL) Mouse Monoclonal Antibody [Clone ID: OTI1F4]
Reactive Species	Human, Mouse, Rat
Description	Boster Bio GLUL mouse monoclonal antibody, clone OTI1F4 (formerly 1F4). Catalog# M03191-1. Tested in FC, IF, IHC, WB. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IF, IHC, WB
Clonality	Monoclonal OTI1F4
Formulation	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Storage Instructions	Store at -20°C as received.
Host	Mouse
Uniprot ID	P15104

Technical Details

Immunogen	Full length human recombinant protein of human GLUL (NP_002056) produced in HEK293T cell.
Isotype	IgG2a
Concentration	1 mg/ml
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows:

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Anti-Glutamine Synthetase (GLUL) Mouse Monoclonal Antibody [Clone ID: OTI1F4] (M03191-1) Images

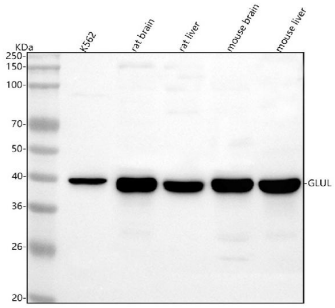
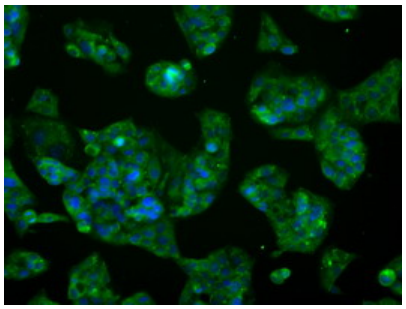
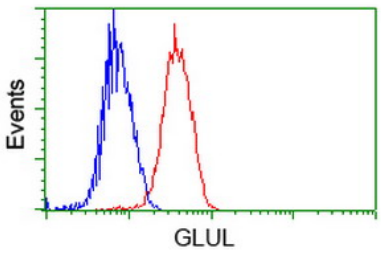


Figure 1. Western blot analysis of GLUL using anti-GLUL antibody (M03191-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human K562 whole cell lysates,
Lane 2: rat brain tissue lysates,
Lane 3: rat liver tissue lysates,
Lane 4: mouse brain tissue lysates,
Lane 5: mouse liver tissue lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-GLUL antigen affinity purified monoclonal antibody (Catalog # M03191-1) at at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for GLUL at approximately 42 kDa. The expected band size for GLUL is at 42 kDa.



Immunofluorescent staining of HepG2 cells using anti-GLUL mouse monoclonal antibody (M03191-1).



Flow cytometric Analysis of Jurkat cells

Anti-GLUL mouse monoclonal antibody (M03191-1) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY GLUL.

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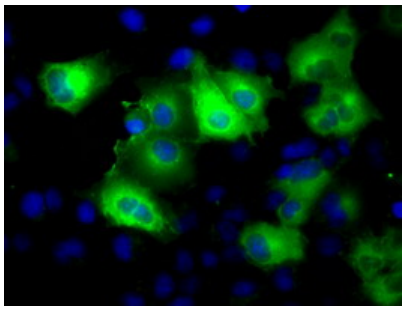
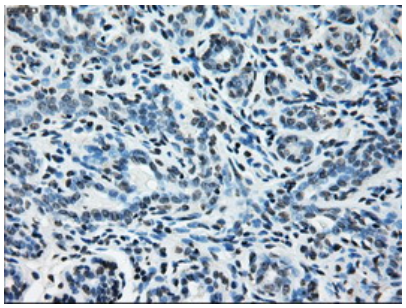
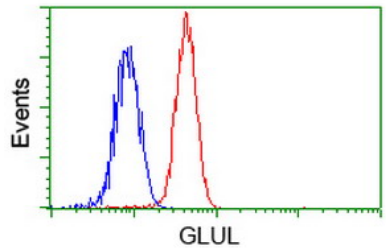
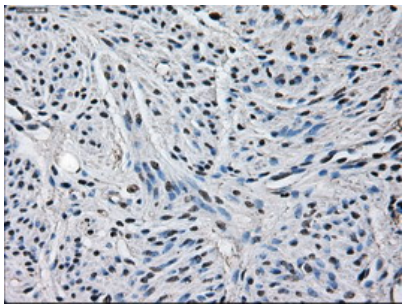




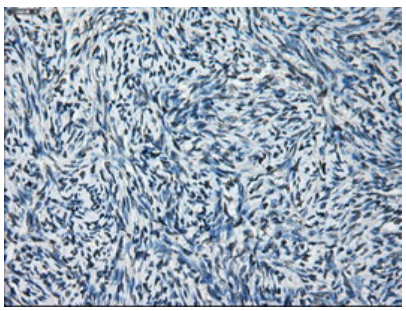
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-GLUL mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer



Flow cytometric Analysis of Hela cells



Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-GLUL mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer



Immunohistochemical staining of paraffin-embedded Human Ovary tissue within the normal limits using anti-GLUL mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer

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

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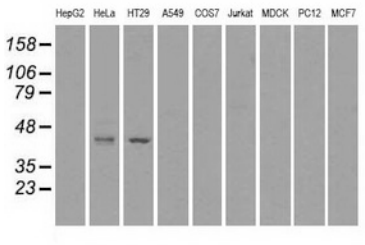


human).

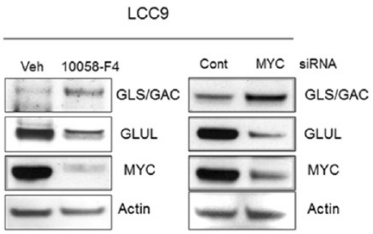
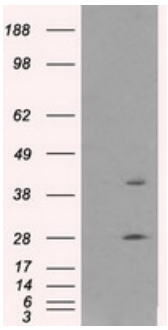


Figure from citation: Western blot analysis of GLUL protein level by using anti-GLUL antibody in LCC9 cells were treated with 10058-F4 (25 uM) or vehicle for 48 h or transfected with MYC or control siRNA for 48 h. Knockdown of MYC increased GLS/GAC levels and decreased GLUL levels.



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GLUL (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-GLUL.

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