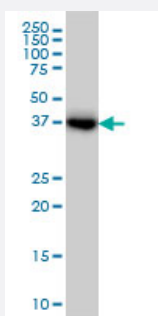


GLUL monoclonal antibody (M02), clone 3B6

Catalog # H00002752-M02

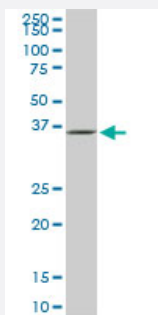
Size 100 ug

Applications



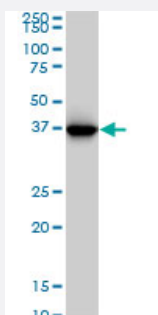
Western Blot (Cell lysate)

GLUL monoclonal antibody (M02), clone 3B6 Western Blot analysis of GLUL expression in Jurkat (Cat # L017V1).



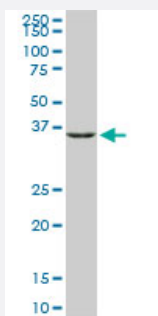
Western Blot (Cell lysate)

GLUL monoclonal antibody (M02), clone 3B6. Western Blot analysis of GLUL expression in PC-12 (Cat # L012V1).



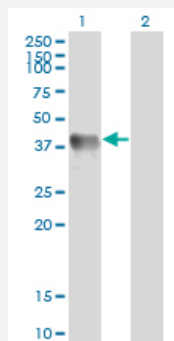
Western Blot (Cell lysate)

GLUL monoclonal antibody (M02), clone 3B6. Western Blot analysis of GLUL expression in HepG2 (Cat # L019V1).



Western Blot (Cell lysate)

GLUL monoclonal antibody (M02), clone 3B6. Western Blot analysis of GLUL expression in Raw 264.7 (Cat # L024V1).

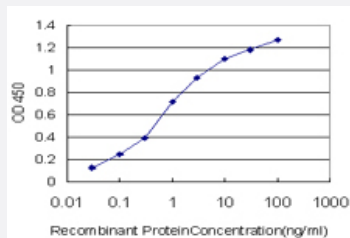


Western Blot (Transfected lysate)

Western Blot analysis of GLUL expression in transfected 293T cell line by GLUL monoclonal antibody (M02), clone 3B6.

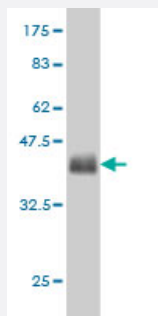
Lane 1: GLUL transfected lysate(42.1 KDa).

Lane 2: Non-transfected lysate.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GLUL is approximately 0.03ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant GLUL.
Immunogen	GLUL (NP_002056, 274 a.a. ~ 373 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	IEKLSKRHQYHIRAYDPKGGLDNARRLTGFHETSNINDFSAGVANRSASIRIPRTVGQEKKGYFEDR RPSANCDPFSVTALIRTCLLNETGDEPFQYKN
Host	Mouse
Reactivity	Human, Mouse, Rat
Interspecies Antigen Sequence	Mouse (94); Rat (94)
Isotype	IgG1 Kappa

Quality Control Testing

Antibody Reactive Against Recombinant Protein.
Western Blot detection against Immunogen (36.74 KDa) .

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

GLUL monoclonal antibody (M02), clone 3B6 Western Blot analysis of GLUL expression in Jurkat (Cat # L017V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

GLUL monoclonal antibody (M02), clone 3B6. Western Blot analysis of GLUL expression in PC-12 (Cat # L012V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

GLUL monoclonal antibody (M02), clone 3B6. Western Blot analysis of GLUL expression in HepG2 (Cat # L019V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

GLUL monoclonal antibody (M02), clone 3B6. Western Blot analysis of GLUL expression in Raw 264.7 (Cat # L024V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of GLUL expression in transfected 293T cell line by GLUL monoclonal antibody (M02), clone 3B6.

Lane 1: GLUL transfected lysate(42.1 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GLUL is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — GLUL

Entrez GeneID	2752
GeneBank Accession#	NM_002065
Protein Accession#	NP_002056
Gene Name	GLUL
Gene Alias	GLNS, GS, PIG43, PIG59
Gene Description	glutamate-ammonia ligase (glutamine synthetase)
Omim ID	138290 610015
Gene Ontology	Hyperlink
Gene Summary	Glutamine is a main source of energy and is involved in cell proliferation, inhibition of apoptosis, and cell signaling (Haberle et al., 2005 [PubMed 16267323]). Fetal glutamine requirements are very high and depend largely on active glutamine synthesis and the release of glutamine into the fetal circulation by the placenta. Glutamine synthetase (EC 6.3.1.2), also called glutamate-ammonia ligase (GLUL), is expressed throughout the body and plays an important role in controlling body pH and in removing ammonia from the circulation. The enzyme clears L-glutamate, the major neurotransmitter in the central nervous system, from neuronal synapses (see references in Clancy et al., 1996 [PubMed 8975719]).[supplied by OMIM]
Other Designations	OTTHUMP00000035524 OTTHUMP00000035525 cell proliferation-inducing protein 59 glutamate-ammonia ligase (glutamine synthase) glutamine synthetase proliferation-inducing protein 43

Publication Reference

- [Optimisation of the quantification of glutamine synthetase and myelin basic protein in cerebrospinal fluid by a combined acidification and neutralisation protocol.](#)

Herbert MK, Kuiperij HB, Verbeek MM.

Journal of Immunology 2012 Jul; 381(1-2):1.

Application: ELISA, Human, Human cerebrospinal fluid

Pathway

- [Alanine](#)
- [Arginine and proline metabolism](#)
- [Metabolic pathways](#)
- [Nitrogen metabolism](#)

Disease

- [Cognition](#)
- [Genetic Predisposition to Disease](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Weight Gain](#)