Mouse GLUL Monoclonal Antibody | anti-GLUL antibody

GLUL (Glutamate-Ammonia Ligase (Glutamine Synthetase), GLNS, GS, PIG43, PIG59) (Biotin)

CATALOG #	HOST	APPLICATIONS
AAA26160	**Mouse**	**Western Blot**

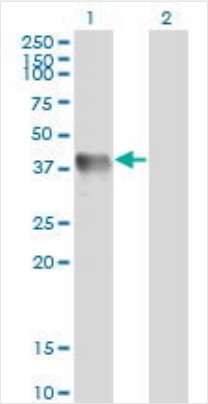
PRODUCT SYNONYMS

GLUL; Monoclonal Antibody; GLUL (Glutamate-Ammonia Ligase (Glutamine Synthetase); GLNS; GS; PIG43; PIG59) (Biotin); Glutamate-Ammonia Ligase (Glutamine Synthetase); PIG59; anti-GLUL antibody

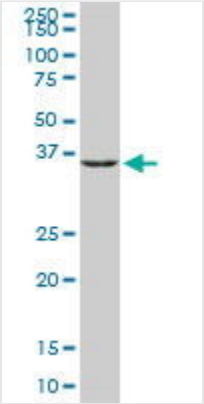
PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	3B6
Specificity	Recognizes GLUL.
Purity/Purification	Purified
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Applicable Applications for anti-GLUL antibody	WB (Western Blot)
Application Notes	Applications are based on unconjugated antibody.
Immunogen	GLUL (NP_002056, 274aa-373aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	IEKLSKRHQYHIRAYDPKGGLDNARRLTGFHETSNINDFSAGVANRSASIRIPRTVGQEKKGYFEDRRPSANCDPFSVTEALIRTCLLNETGDEPFQYKN
Conjugate	Biotin
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

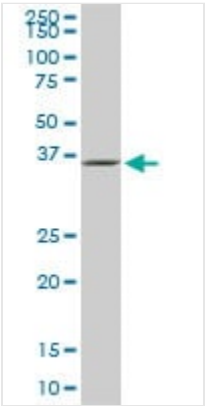
IMAGES



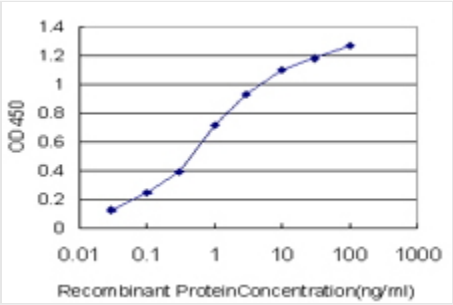
WB (Western Blot)
Western Blot analysis of GLUL expression in transfected 293T cell line by GLUL monoclonal antibody (M02), clone 3B6.Lane 1: GLUL transfected lysate(42.1 KDa).Lane 2: Non-transfected lysate.



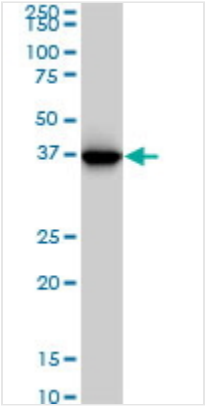
WB (Western Blot)
GLUL monoclonal antibody (M02), clone 3B6. Western Blot analysis of GLUL expression in Raw 264.7.



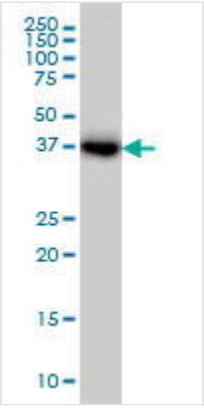
WB (Western Blot)
GLUL monoclonal antibody (M02), clone 3B6. Western Blot analysis of GLUL expression in PC-12.



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



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



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

ADDITIONAL INFORMATION

Related Product Information for anti-GLUL antibody	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]
Product Categories/Family for anti-GLUL antibody	Antibodies; Enzymes; Decarboxylase
References	1. 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.J Immunol Methods. 2012 Apr 19.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19923206
NCBI GeneID	2752
NCBI Accession #	NP_002056
NCBI GenBank Nucleotide #	NM_002065
UniProt Accession #	P15104
Molecular Weight	42kDa
NCBI Official Full Name	glutamine synthetase
NCBI Official Synonym Full Names	glutamate-ammonia ligase
NCBI Official Symbol	GLUL
NCBI Official Synonym Symbols	GS; GLNS; PIG43; PIG59
NCBI Protein Information	glutamine synthetase
UniProt Protein Name	Glutamine synthetase
UniProt Gene Name	**GLUL**
UniProt Synonym Gene Names	GLNS; GS
UniProt Entry Name	GLNA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/monoclonal/glul-antibody-clone-3b6-western-blot-elisa/26160