

Nur für Forschungszwecke

# Glutamine Synthetase Monoklonaler Antikörper



Katalog-Nr.: 66323-1-Ig

Vorgestelltes Produkt

4 Publikationen

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 66323-1-Ig	<b>GenBank-Zugangsnummer:</b> BC011700	<b>Reinigungsmethode:</b> Protein-A-Reinigung
<b>Größe:</b> 150ul, Konzentration: 1100 µg/ml von 2752 Nanodrop und 1000 µg/ml durch die Bradford-Methode mit BSA als Standard;	<b>GeneID (NCBI):</b> Vollständiger Name: glutamate-ammonia ligase (glutamine synthetase)	<b>CloneNo.:</b> 1D10G8
<b>Wirt:</b> Maus	<b>Berechnete Masse:</b> 374 aa, 42 kDa	<b>Empfohlene Verdünnungen:</b> WB 1:1000-1:8000 IHC 1:50-1:500 IF 1:50-1:500
<b>Isotyp:</b> IgG2b	<b>Beobachtete Masse:</b> 42 kDa	
<b>Immunogen Katalognummer:</b> AG6309		

## Anwendungen

<b>Geprüfte Anwendungen:</b> IF, IHC, WB, ELISA	<b>Positivkontrollen:</b> WB: Jurkat-Zellen, Hausschwein-Hirngewebe, Hausschwein-Lebergewebe IHC: humanes Leberkarzinomgewebe, humanes Hirngewebe IF: humanes Hirngewebe,
<b>In Publikationen genannte Anwendungen:</b> IF, WB	
<b>Getestete Reaktivität:</b> Hausschwein, Human	
<b>Zitierte Arten:</b> Human, Maus	
<b>Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.</b>	

## Hintergrundinformationen

GLUL (Glutamine synthetase) is also named as GS, GLNS and belongs to the glutamine synthetase family. This enzyme has 2 functions: it catalyzes the production of glutamine and 4-aminobutanoate (gamma-aminobutyric acid, GABA), the latter in a pyridoxal phosphate-independent manner. By similarity. Essential for proliferation of fetal skin fibroblasts (PMID:18662667). Defects in GLUL are the cause of congenital systemic glutamine deficiency (CSGD). Organismal glutamine production is augmented secondary to an increase in the activity of glutamine synthetase in the lung and skeletal muscle (PMID:7630137). There are other bands with higher (66 kDa, 97 kDa) and lower (30 kDa) molecular weights also detected besides the 42 kDa band indicating the proteolysis of GLUL protein by the ubiquitin system (PMID:10091759).

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Emily-Rose Martin	36339621	Front Pharmacol	WB
Qizhi Wang	36216131	Pharmacol Res	WB
Matthew J Broadhead	35305541	Acta Neuropathol	IF

## Lagerung

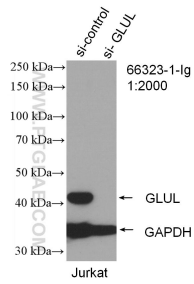
**Lagerungsbedingungen:**  
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil  
**Lagerungspuffer:**  
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.  
Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

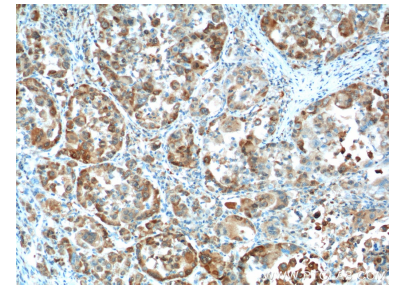
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Ausgewählte Validierungsdaten

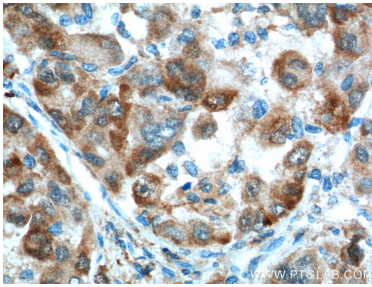


WB result of Glutamine synthetase antibody (66323-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Glutamine synthetase transfected Jurkat cells.

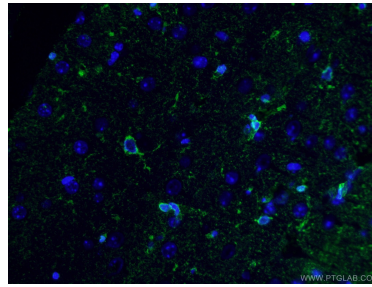
Jurkat cells were subjected to SDS PAGE followed by western blot with 66323-1-Ig (Glutamine synthetase Antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66323-1-Ig (Glutamine synthetase Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66323-1-Ig (Glutamine synthetase Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human brain tissue using 66323-1-Ig (Glutamine synthetase antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).