

Nur für Forschungszwecke

Glutamine Synthetase Polyklonaler Antikörper



Katalog-Nr.: 11037-2-AP

Vorgestelltes Produkt

24 Publikationen

Allgemeine Informationen

Katalog-Nr.: 11037-2-AP	GenBank-Zugangsnummer: BC011700	Reinigungsmethode: Antigen-Affinitätsreinigung
Größe: 150ul, Konzentration: 500 µg/ml von Nanodrop;	GeneID (NCBI): 2752	Empfohlene Verdünnungen: WB 1:1000-1:6000 IHC 1:50-1:500 IF 1:50-1:500
Wirt: Kaninchen	Vollständiger Name: glutamate-ammonia ligase (glutamine synthetase)	
Isotyp: IgG	Berechnete Masse: 374 aa, 42 kDa	
Immunogen Katalognummer: AG1510	Beobachtete Masse: 40-42 kDa	

Anwendungen

Geprüfte Anwendungen:

FC, IF, IHC, WB, ELISA

In Publikationen genannte Anwendungen:

ELISA, IF, IHC, IP, WB

Getestete Reaktivität:

Human, Maus, Ratte

Zitierte Arten:

Human, Maus, Ratte

Positivkontrollen:

WB: Jurkat-Zellen, Mauslebergewebe, Rattenlebergewebe

IHC: Maushirngewebe, humanes Leberkarzinomgewebe

IF: Maushirngewebe, humanes Hirngewebe

Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.

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. 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
Hui Zhang	32946868	Eur J Pharmacol	WB
Si Chen	33061920	Front Psychiatry	WB
Pengyi Zhou	36260151	J Mol Histol	WB

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

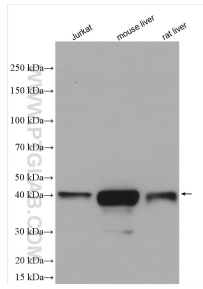
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

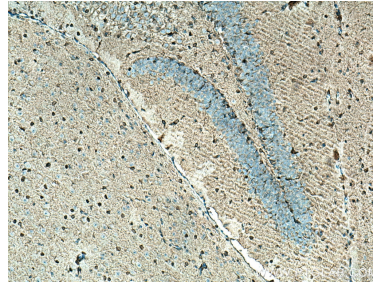
E: proteintech@ptglab.com
W: ptglab.com

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

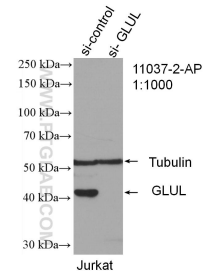
Ausgewählte Validierungsdaten



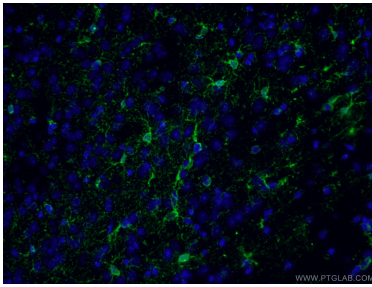
Jurkat cells were subjected to SDS PAGE followed by western blot with 11037-2-AP (Glutamine Synthetase antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



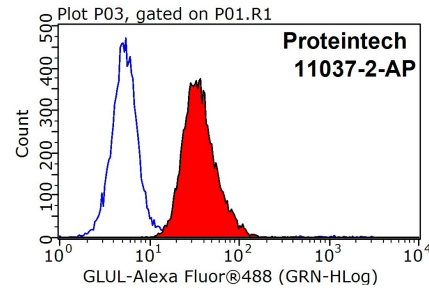
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11037-2-AP (Glutamine Synthetase antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of Glutamine synthetase antibody (11037-2-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Glutamine synthetase transfected Jurkat cells.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 11037-2-AP (Glutamine synthetase antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1x10⁶ HepG2 cells were stained with 0.2ug Glutamine synthetase antibody (11037-2-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.