For Research Use Only

Glutamine Synthetase Polyclonal antibody, PBS Only

Catalog Number:11037-2-PBS Featured Product

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
11037-2-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1510

GenBank Accession Number:
BC011700

GeneID (NCBI):
2752

UNIPROT ID:
P15104

Full Name:
glutamate-ammonia ligase (glutamine synthetase)

Calculated MW:
374 aa, 42 kDa

Observed MW:
40-42 kDa

Purification Method:
Antigen affinity purification

Applications

Tested Applications:
WB, IHC, IF-P, FC (Intra), IP, ELISA

Species Specificity:
human, mouse, rat

Background Information

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).

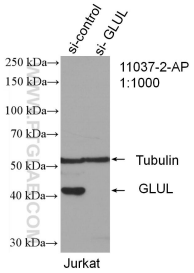
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

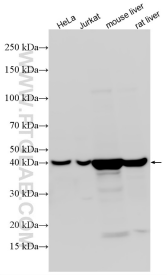
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

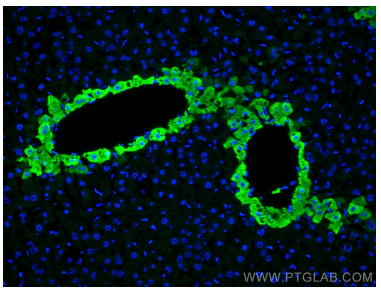
Selected Validation Data



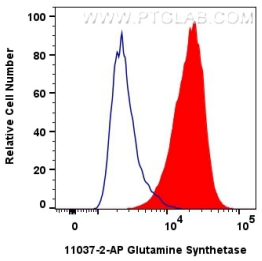
WB result of Glutamine synthetase antibody (11037-2-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Glutamine synthetase transfected Jurkat cells. This data was developed using the same antibody clone with 11037-2-PBS in a different storage buffer formulation.



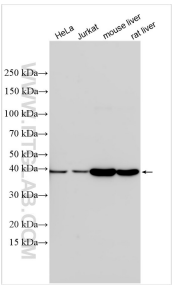
Various lysates were subjected to SDS PAGE followed by western blot with 11037-2-AP (Glutamine Synthetase antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 11037-2-PBS in a different storage buffer formulation.



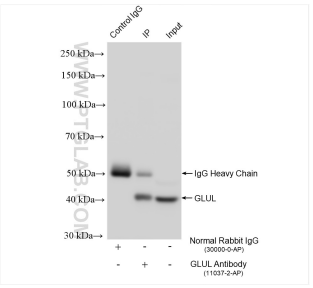
Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using Glutamine Synthetase antibody (11037-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 11037-2-PBS in a different storage buffer formulation.



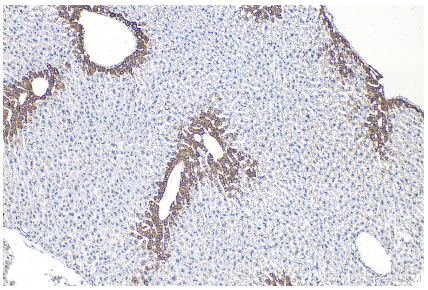
1x10^6 Jurkat cells were intracellularly stained with 0.4 ug Glutamine Synthetase Polyclonal antibody (11037-2-AP)(red), or 0.4 ug rabbit IgG isotype control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer. This data was developed using the same antibody clone with 11037-2-PBS in a different storage buffer formulation.



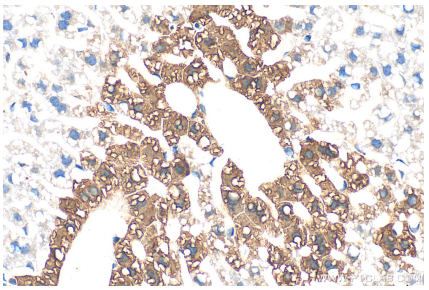
Various lysates were subjected to SDS PAGE followed by western blot with 11037-2-AP (Glutamine Synthetase antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 11037-2-PBS in a different storage buffer formulation.



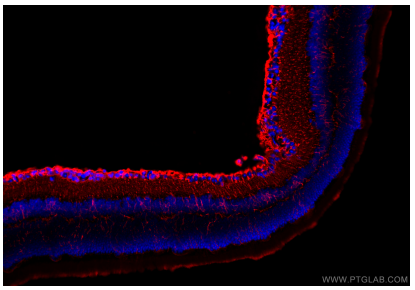
IP result of anti-Glutamine Synthetase (IP:11037-2-AP, 4ug; Detection:11037-2-AP 1:5000) with mouse liver tissue lysate 2400 ug. This data was developed using the same antibody clone with 11037-2-PBS in a different storage buffer formulation.



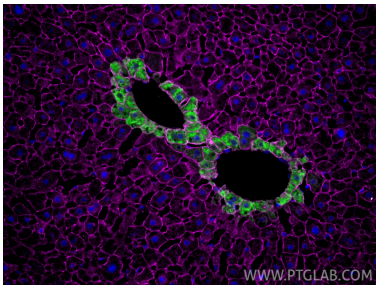
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 11037-2-AP (Glutamine Synthetase antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 11037-2-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 11037-2-AP (Glutamine Synthetase antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 11037-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse eye tissue using Glutamine Synthetase antibody (11037-2-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 11037-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using Glutamine Synthetase antibody (11037-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), Beta Catenin antibody (66379-1-Ig, Clone: 1B8A1, Magenta). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 11037-2-PBS in a different storage buffer formulation.