

# CoraLite®555-conjugated Glutamine Synthetase Monoclonal antibody

Catalog Number: CL555-66323

Featured Product

## Basic Information

**Catalog Number:**

CL555-66323

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG6309

**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:**

42 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1B6G4

**Excitation/Emission maxima wavelengths:**

557 nm / 570 nm

## Applications

**Tested Applications:**

IF-P

**Species Specificity:**

Human, mouse, rat

## Background Information

GLUL (Glutamine synthetase) is also named as GS, GLNS, which 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 the 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 -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

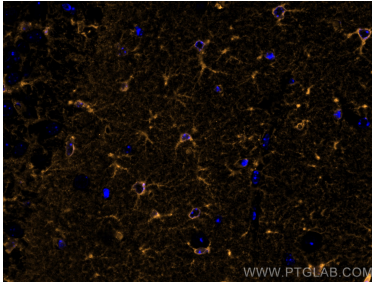
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CoraLite® 555 Glutamine Synthetase antibody (CL555-66323, Clone: 1B6G4) at dilution of 1:200.