CoraLite®555-conjugated Glutamine Synthetase Monoclonal antibody

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

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

Recommended Dilutions:
IF 1:50-1:500

Excitation/Emission maxima wavelengths:
557 nm / 570 nm

Applications

Tested Applications:
IF-P

Species Specificity:
Human, mouse, rat

Positive Controls:

IF : mouse brain tissue,

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:
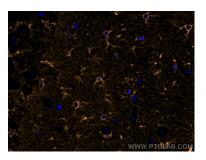Store at -20℃. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

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.