

For Research Use Only

CoraLite®555-conjugated Glutamine Synthetase Monoclonal antibody



Catalog Number:CL555-66323

Featured Product

Basic Information

Catalog Number: CL555-66323	GenBank Accession Number: BC011700	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 2752	CloneNo.: 1B6G4
Source: Mouse	Full Name: glutamate-ammonia ligase (glutamine synthetase)	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG1	Calculated MW: 374 aa, 42 kDa	Excitation/Emission maxima wavelengths: 557 nm / 570nm
Immunogen Catalog Number: AG6309	Observed MW: 42 kDa	

Applications

Tested Applications: IF	Positive Controls: IF : mouse brain tissue,
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. 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

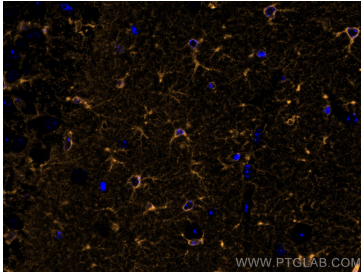
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 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)
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.