## For Research Use Only

## CoraLite® Plus 488-conjugated Glutamine Synthetase Monoclonal antibody

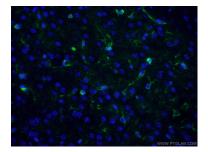


## Catalog Number: CL 488-66323 Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** CL488-66323 BC011700 Protein G purification GenelD (NCBI): Size: CloneNo.: 1000 µg/ml 2752 1B6G4 UNIPROT ID: Recommended Dilutions: Source: Mouse P15104 IF 1:50-1:500 Full Name: Excitation/Emission maxima Isotype: lgG1 glutamate-ammonia ligase wavelengths: 493 nm / 522 nm (glutamine synthetase) Immunogen Catalog Number: AG6309 Calculated MW: 374 aa, 42 kDa **Applications Tested Applications:** Positive Controls: IF/ICC,IF-P IF : mouse brain tissue, **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). The antibody is conjugated with CL488, Ex/Em 488 nm/515 nm. **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

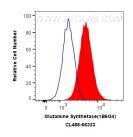
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CL488-66323 (Glutamine synthetase antibody) at dilution of 1:50.



1X10^6 HepG2 cells were intracellularly stained with 0.8 ug Coralite® Plus 488 Anti-Human Glutamine Synthetase (CL488-66323, Clone:1B6G4) (red), or 0.8 ug Coralite® Plus 488 Mouse IgG1 Isotype Control (MOPC-21) (CL488-65124, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).