

For Research Use Only

Glutamine synthetase Recombinant monoclonal antibody

Catalog Number: 86716-1-RR



Basic Information

Catalog Number:

86716-1-RR

Size:

100ul , Concentration: 1000 µg/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:

Protein A purification

CloneNo.:

251711A8

Recommended Dilutions:

WB: 1:5000-1:50000

IP: 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

WB, IP, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : mouse liver tissue, HeLa cells, HEK-293 cells, rat liver tissue, mouse brain tissue

IP : mouse liver tissue,

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).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

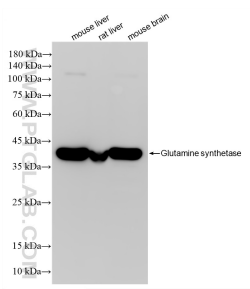
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

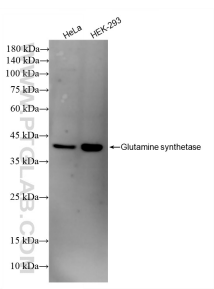
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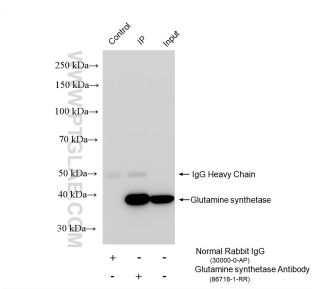
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86716-1-RR (Glutamine synthetase antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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IP result of anti-Glutamine synthetase (IP:86716-1-RR, 4ug; Detection:86716-1-RR 1:2000) with mouse liver tissue lysate 2480 ug.