
Glutamine synthetase Rabbit pAb

Catalog Number: bs-42310R

Target Protein: Glutamine synthetase

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Human, Mouse, Rat

Predicted MW: 42 kDa

Subcellular: Cytoplasm

Locations:

Entrez Gene: 2752

Swiss Prot: P15104

Source: Recombinant human Glutamine synthetase protein: 1-373/373.

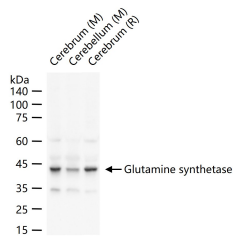
Purification: affinity purified by Protein A

Storage: 0.01M TBS(pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

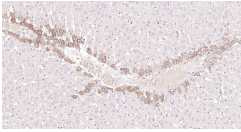
Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Background: Glutamine Synthetase catalyzes the conversion of ammonia and glutamate to glutamine. It is found in astrocytes as an octamer of identical 42 kDa subunits. The function of Glutamine Synthetase is the detoxification of brain ammonia. It also has an important role in the metabolic regulation of neurotransmitter glutamate. Because of the multiple functions and importance of Glutamine Synthetase in cellular metabolism, both catalytic activities and synthesis are highly regulated. The activity of Glutamine Synthetase is controlled by adenylylation. Its activity is decreased in the cerebral cortex of brains affected by Alzheimer's disease, particularly in the vicinity of senile plaques. It is also decreased under conditions of glucose deprivation. The level of expression of Glutamine Synthetase is increased during ischemia in vivo or hypoxia in culture.

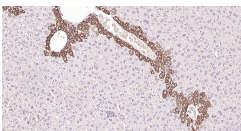
VALIDATION IMAGES



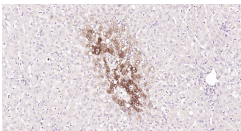
25 ug total protein per lane of various lysates (see on figure) probed with Glutamine synthetase polyclonal antibody, unconjugated (bs-42310R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Rat Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Glutamine synthetase Polyclonal Antibody, Unconjugated (bs-42310R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Glutamine synthetase Polyclonal Antibody, Unconjugated (bs-42310R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Glutamine synthetase Polyclonal Antibody, Unconjugated (bs-42310R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.