Anti-Glutamine Synthetase Antibody [PSH10-48] HA723212

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat, Cynomolgus monkey, Pig
Applications:	WB, IHC-Fr
Molecular Wt:	Predicted band size: 42 kDa
Clone number:	PSH10-48
Description:	The protein encoded by this gene belongs to the glutamine synthetase family. It catalyzes the synthesis of glutamine from glutamate and ammonia in an ATP-dependent reaction. This protein plays a role in ammonia and glutamate detoxification, acid-base homeostasis, cell signaling, and cell proliferation. Glutamine is an abundant amino acid, and is important to the biosynthesis of several amino acids, pyrimidines, and purines. Mutations in this gene are associated with congenital glutamine deficiency, and overexpression of this gene was observed in some primary liver cancer samples. There are six pseudogenes of this gene found on chromosomes 2, 5, 9, 11, and 12. Alternative splicing results in multiple transcript variants.
Positive control:	K-562 cell lysate, HepG2 cell lysate, Mouse brain tissue lysate, Mouse liver tissue lysate, Rat brain tissue lysate, Rat liver tissue lysate, mouse brain tissue, rat brain tissue.
Subcellular location:	Microsome, Cytosol, Mitochondrion, Cell membrane.
Database links:	SwissProt: P15104 Human P15105 Mouse P09606 Rat
Recommended Dilutions: WB IHC-Fr	1:5,000 1:500
Storage Buffer:	PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Storage Instruction:	Shipped at $4{}^\circ\!\mathrm{C}$. Store at +4 ${}^\circ\!\mathrm{C}$ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20 ${}^\circ\!\mathrm{C}$ long term.
Purity:	Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

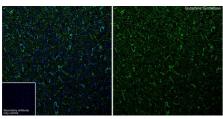
5 Service mail:support@huabio.cn



Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

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Images



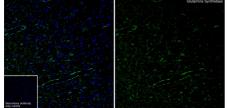


Fig1: Application: IHC-Fr Species: Mouse Site: Cerebral cortex Sample: Frozen section Antibody concentration: 1:500 Antigen retrieval: Not required Fig2: Application: IHC-Fr Species: Rat Site: Cerebral cortex Sample: Frozen section Antibody concentration: 1:500 Antigen retrieval: Not required Fig3: Western blot analysis of Glutamine Synthetase on different lysates with Rabbit anti-Glutamine Synthetase antibody (HA723212) at 1/5,000 dilution. Lane 1: K-562 cell lysate Lane 2: HepG2 cell lysate Lane 3: Mouse brain tissue lysate Lane 4: Mouse liver tissue lysate Lane 5: Rat brain tissue lysate Lane 6: Rat liver tissue lysate Lysates/proteins at 20 µg/Lane. Predicted band size: 42 kDa Observed band size: 42 kDa

Exposure time: 2 seconds; ECL: K1801; 4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA723212) at 1/5,000 dilution was used in primary antibody dilution at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

- 1. Muthu M. et. al. GLUL Ablation Can Confer Drug Resistance to Cancer Cells via a Malate-Aspartate Shuttle-Mediated Mechanism. Cancers (Basel). 2019 Dec
- 2. Wang Y. et. al. GLUL Promotes Cell Proliferation in Breast Cancer. J Cell Biochem. 2017 Aug

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