

# Anti-Glutamine Synthetase Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

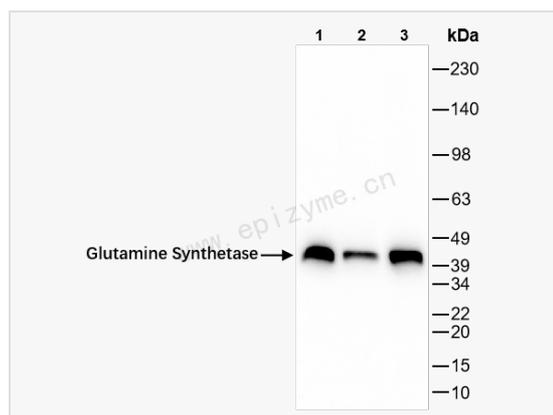
Catalog # R012935

## Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Mouse, Rat
Dilution	WB 1:1,000~1:3,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	72M39L80
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Glutamine Synthetase
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Glutamine Synthetase Rabbit mAb [72M39L80] is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

Synonyms	GLNS; GLUL; Glutamine synthetase; GS; Glutamate--ammonia ligase; Palmitoyltransferase GLUL.
Calculated MW	Calculated MW: 42 kDa; Observed MW: 42 kDa
Uniprot ID	P15104
Gene ID	2752
Background	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. [provided by RefSeq, Dec 2014]
Cellular Location	Cytoplasm.Cytosol.Microsome.Mitochondrion.Cell membrane.Lipid-anchor.Mainly localizes in the cytosol, with a fraction associated with the cell membrane.
Tissue Location	Expressed in endothelial cells.



Western Blot - Anti-Glutamine Synthetase Rabbit mAb [72M39L80]

All lanes: R012935 at 1:3,000 dilution

Lane 1: Mouse brain whole tissue lysates

Lane 2: Mouse liver whole tissue lysates

Lane 3: Rat brain whole tissue lysates

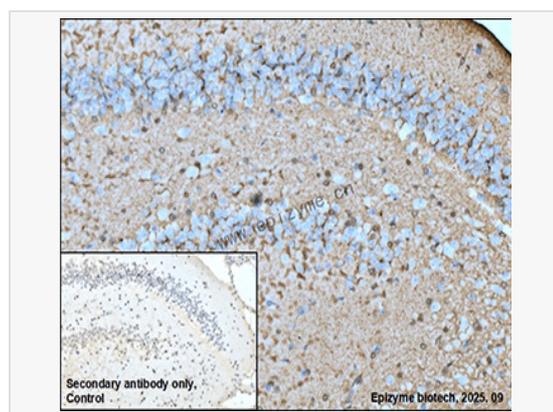
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 42 kDa

Observed band size: 42 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Glutamine Synthetase Rabbit mAb [72M39L80]

Sample: Paraformaldehyde-fixed, paraffin embedded rat brain tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R012935 at 1:200 dilution

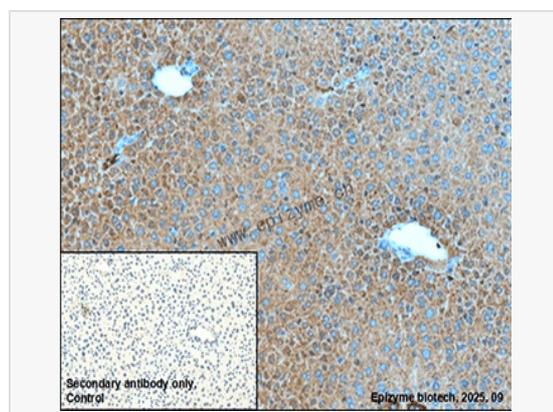
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Glutamine Synthetase Rabbit mAb [72M39L80]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse liver tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R012935 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.