

**产品名称: Glutamine Synthetase (14W15) Rabbit
Monoclonal Antibody**
产品货号: AMRe11507



产品概述 (Summary)

产品名称 (Production Name)	Glutamine Synthetase (14W15) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,IF-P
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	GLUL
别名 (Alternative Names)	GLNA; GS; GLUL; GLNS; PIG43 ; PIG59; Glutamine synthetase;
基因 ID (Gene ID)	2752.0
蛋白 ID (SwissProt ID)	P15104.A synthetic peptide of human Glutamine Synthetase

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:5000,IHC 1:200-1:500,IF-P 1:200-1:500
蛋白分子量 (Molecular Weight)	42kDa

研究背景 (Background)

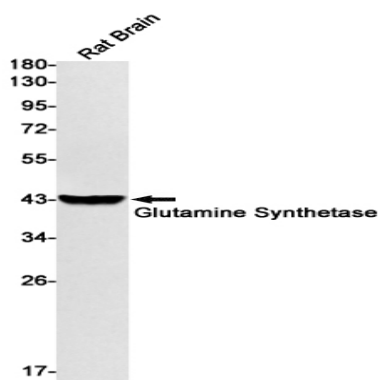
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The protein encoded by this gene belongs to the glutamine synthetase family. It catalyzes the synthesis of glutamine from glutamate and ammonia. Glutamine is a main source of energy and is involved in cell proliferation, inhibition of apoptosis, and cell signaling. This gene is expressed during early fetal stages, and plays an important role in controlling body pH by removing ammonia from circulation. Glutamine synthetase that catalyzes the ATP-dependent conversion of glutamate and ammonia to glutamine (PubMed: [30158707](http://www.uniprot.org/citations/30158707)), PubMed: [16267323](http://www.uniprot.org/citations/16267323)). Its role depends on tissue localization: in the brain, it regulates the levels of toxic ammonia and converts neurotoxic glutamate to harmless glutamine, whereas in the liver, it is one of the enzymes responsible for the removal of ammonia (By similarity). Essential for proliferation of fetal skin fibroblasts (PubMed: [18662667](http://www.uniprot.org/citations/18662667)). Independently of its glutamine synthetase activity, required for endothelial cell migration during vascular development: acts by regulating membrane localization and activation of the GTPase RHOJ, possibly by promoting RHOJ palmitoylation (PubMed: [30158707](http://www.uniprot.org/citations/30158707)). May act as a palmitoyltransferase for RHOJ: able to autopalmitylate and then transfer the palmitoyl group to RHOJ (PubMed: [30158707](http://www.uniprot.org/citations/30158707)). Plays a role in ribosomal 40S subunit biogenesis (PubMed: [26711351](http://www.uniprot.org/citations/26711351)).

研究领域 (Research Area)

Alanine; aspartate and glutamate metabolism; Arginine and proline metabolism; Nitrogen metabolism;

图片 (Image Data)



Western blot detection of Glutamine Synthetase in Rat Brain lysates using Glutamine Synthetase antibody(1:1000 diluted).

注意事项 (Note)

For research use only .