

ARG55691 anti-Glutamine Synthetase antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Glutamine Synthetase
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Bov, Chk, Mk, Pig
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Glutamine Synthetase
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 70-96 (N-terminus) of Human Glutamine Synthetase.
Conjugation	Un-conjugated
Alternate Names	GS; PIG43; Glutamate decarboxylase; EC 6.3.1.2; PIG59; Glutamine synthetase; Glutamate--ammonia ligase; GLNS; EC 4.1.1.15

Application Instructions

Application table	Application	Dilution
	IHC-P	1:10 - 1:50
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Jurkat	

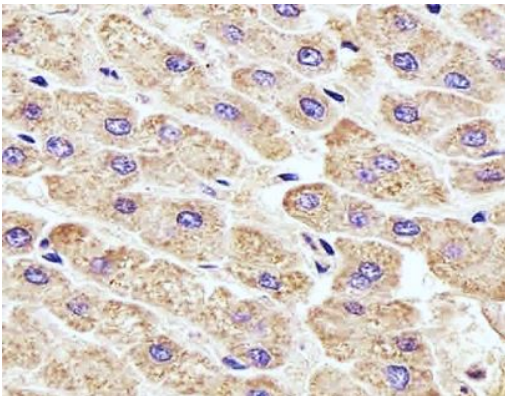
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

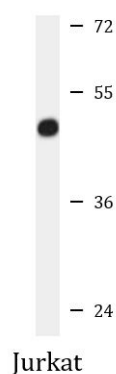
Gene Symbol	GLUL
Gene Full Name	glutamate-ammonia ligase
Background	The protein encoded by this gene belongs to the glutamine synthetase family. It catalyzes the synthesis of glutamine from glutamate and ammonia in an ATP-dependent reaction. This protein plays a role in ammonia and glutamate detoxification, 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]
Function	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. [UniProt]
Highlight	Related products: Glutamine Synthetase antibodies ; Anti-Rabbit IgG secondary antibodies ; Related news: Switching identity, the potential of regenerative medicine?
Calculated Mw	42 kDa
PTM	Ubiquitinated by ZNRF1.
Cellular Localization	Cytoplasm. Mitochondrion.

Images



ARG55691 anti-Glutamine Synthetase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver tissue stained with ARG55691 anti-Glutamine Synthetase antibody at 1:25 dilution.



ARG55691 anti-Glutamine Synthetase antibody WB image

Western blot: 20 µg of Jurkat cell lysate stained with ARG55691 anti-Glutamine Synthetase antibody at 1:1000 dilution.