

ARG57501 anti-Glutamine Synthetase antibody [8D7]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [8D7] recognizes Glutamine Synthetase
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	8D7
Isotype	IgG1, kappa
Target Name	Glutamine Synthetase
Species	Human
Immunogen	Recombinant Human Glutamine Synthetase (aa. 1-373) purified from E. coli.
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
	ICC/IF	1:100
	WB	1:1000

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

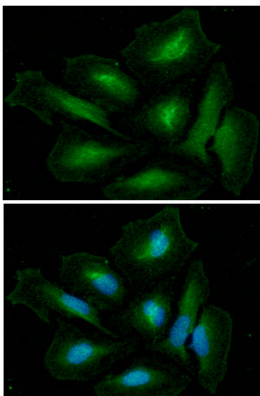
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
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. 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

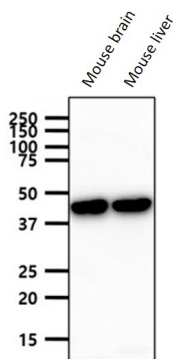
Gene Symbol	GLUL
Gene Full Name	glutamate-ammonia ligase
Background	The protein encoded by this gene belongs to the glutamine synthetase family. It catalyzes the synthesis of glutamine from glutamate and ammonia in an ATP-dependent reaction. This protein plays a role in ammonia and glutamate detoxification, 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]
Calculated Mw	42 kDa
PTM	Ubiquitinated by ZNRF1.

Images



ARG57501 anti-Glutamine Synthetase antibody [8D7] ICC/IF image

Immunofluorescence: HeLa cells stained with ARG57501 anti-Glutamine Synthetase antibody [8D7] at 1:100 dilution. The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



ARG57501 anti-Glutamine Synthetase antibody [8D7] WB image

Western blot: 40 μ g of Mouse brain and Mouse liver tissue lysates stained with ARG57501 anti-Glutamine Synthetase antibody [8D7] at 1:1000 dilution.