

ARG55655 anti-Glutamine Synthetase antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Glutamine Synthetase
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Glutamine Synthetase
Species	Human
Immunogen	Recombinant protein 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

Predict Reactivity Note	Rat								
Application table	<table><thead><tr><th>Application</th><th>Dilution</th></tr></thead><tbody><tr><td>ICC/IF</td><td>1:50 - 1:200</td></tr><tr><td>IHC-P</td><td>1:50 - 1:200</td></tr><tr><td>WB</td><td>1:500 - 1:2000</td></tr></tbody></table>	Application	Dilution	ICC/IF	1:50 - 1:200	IHC-P	1:50 - 1:200	WB	1:500 - 1:2000
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IHC-P	1:50 - 1:200								
WB	1:500 - 1:2000								
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.								
Positive Control	SH-SY5Y								
Observed Size	40 kDa								

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
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.

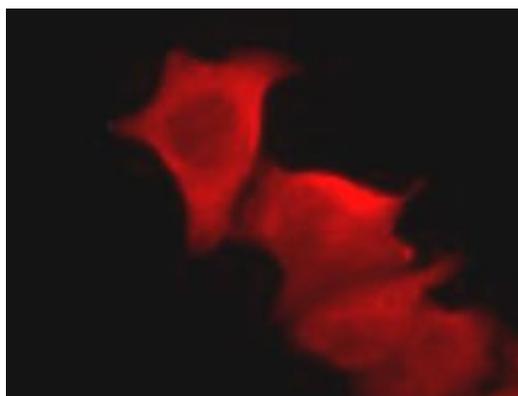
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

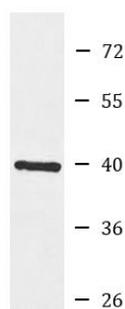
Gene Symbol	GLUL
Gene Full Name	glutamate-ammonia ligase
Background	The protein encoded by this gene belongs to the glutamine synthetase family. It catalyzes the synthesis of glutamine from glutamate and ammonia in an ATP-dependent reaction. This protein plays a role in ammonia and glutamate detoxification,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



ARG55655 anti-Glutamine Synthetase antibody ICC/IF image

Immunofluorescence: MCF7 cells stained with ARG55655 anti-Glutamine Synthetase antibody.



SH-SY5Y

ARG55655 anti-Glutamine Synthetase antibody WB image

Western blot: SH-SY5Y cell lysate stained with ARG55655 anti-Glutamine Synthetase antibody.