

## Product datasheet

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# ARG43107 anti-Glutaminase C antibody

Package: 100 μl Store at: -20°C

#### Summary

Product Description Rabbit Polyclonal antibody recognizes Glutaminase C

Tested Reactivity Hu, Ms, Rat

Tested Application FACS, ICC/IF, IP, WB

Host Rabbit

**Clonality** Polyclonal

Isotype IgG

Target Name Glutaminase C

Species Human

Immunogen Recombinant protein of Human Glutaminase C.

Conjugation Un-conjugated

Alternate Names EC 3.5.1.2; AAD20; L-glutamine amidohydrolase; KGA; Glutaminase kidney isoform, mitochondrial;

GAM; K-glutaminase; GLS; GAC; GLS1

### **Application Instructions**

Application table	Application	Dilution
	FACS	1:50
	ICC/IF	1:50
	IP	1:20
	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	HeLa	
Observed Size	~ 66 kDa	

#### **Properties**

Form Liquid

Purification Affinity purified.

Buffer 50 mM Tris-Glycine (pH 7.4), 150 mM NaCl, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.

Preservative 0.01% Sodium azide

Stabilizer 40% Glycerol and 0.05% BSA

Concentration Batch dependent

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 GLS

Gene Full Name glutaminase

Background This gene encodes the K-type mitochondrial glutaminase. The encoded protein is an phosphate-

activated amidohydrolase that catalyzes the hydrolysis of glutamine to glutamate and ammonia. This protein is primarily expressed in the brain and kidney plays an essential role in generating energy for metabolism, synthesizing the brain neurotransmitter glutamate and maintaining acid-base balance in the kidney. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]

Function Catalyzes the first reaction in the primary pathway for the renal catabolism of glutamine. Plays a role in

maintaining acid-base homeostasis. Regulates the levels of the neurotransmitter glutamate, the main excitatory neurotransmitter in the brain (PubMed:30575854, PubMed:30239721, PubMed:30970188).

[Isoform 2]: Lacks catalytic activity. [UniProt]

Highlight Related products:

Glutaminase antibodies; Glutaminase ELISA Kits; Anti-Rabbit IgG secondary antibodies;

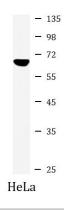
Related news:

TCA intermediate fumarate promotes mitobiogenesis

Calculated Mw 73 kDa

Cellular Localization Isoform 1: Cytoplasm, cytosol. Isoform 3: Mitochondrion. [UniProt]

#### **Images**



#### ARG43107 anti-Glutaminase C antibody WB image

Western blot: HeLa cell lysate stained with ARG43107 anti-Glutaminase C antibody at 1:1000 dilution.