

For Research Use Only

GATC Monoclonal antibody

Catalog Number: 68405-1-Ig



Basic Information

Catalog Number: 68405-1-Ig	GenBank Accession Number: BC107145	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 283459	CloneNo.: 2F9C8
Source: Mouse	UNIPROT ID: O43716	Recommended Dilutions: WB 1:2000-1:10000 IF/ICC 1:200-1:800
Isotype: IgG2b	Full Name: glutamyl-tRNA(Gln) amidotransferase, subunit C homolog (bacterial)	
Immunogen Catalog Number: AG19857	Calculated MW: 136 aa, 15 kDa	
	Observed MW: 15 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: human	WB : LNCaP cells, A549 cells, HEK-293 cells, K-562 cells IF/ICC : HEK-293 cells,

Background Information

GATC encodes a subunit of the glutamyl-tRNA(Gln) amidotransferase protein complex (GatCAB), which plays a role in aminoacylation of mitochondrial glutamyl mt-tRNA. The complex plays an role in mitochondrial translation and protein synthesis (PubMed: 30283131).

Storage

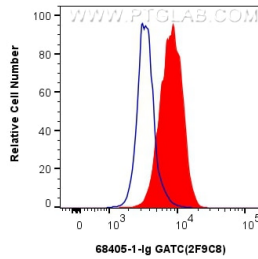
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

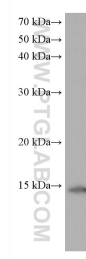
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

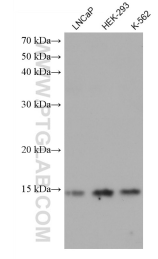
Selected Validation Data



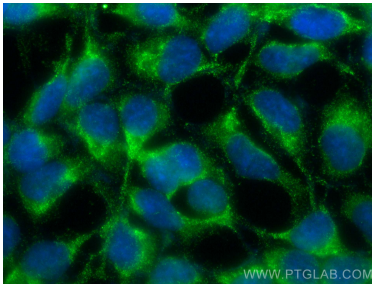
1×10^6 HEK-293 cells were intracellularly stained with 0.25 μ g GATC Monoclonal antibody (68405-1-Ig, Clone: 2F9C8) and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.25 μ g Mouse IgG2b isotype control Mouse McAb (66360-3-Ig, Clone: 11B8C4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



A549 cells were subjected to SDS PAGE followed by western blot with 68405-1-Ig (GATC antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 68405-1-Ig (GATC antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using GATC antibody (68405-1-Ig, Clone: 2F9C8) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).