

For Research Use Only

GATC Monoclonal antibody

Catalog Number: 68405-1-Ig



Basic Information

Catalog Number:

68405-1-Ig

Size:

1000 ug/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG19857

GenBank Accession Number:

BC107145

GeneID (NCBI):

283459

UNIPROT ID:

O43716

Full Name:

glutamyl-tRNA(Gln)
amidotransferase, subunit C homolog
(bacterial)

Calculated MW:

136 aa, 15 kDa

Observed MW:

15 kDa

Purification Method:

Protein A purification

CloneNo.:

2F9C8

Recommended Dilutions:

WB 1:2000-1:10000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human

Positive Controls:

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

For technical support and original validation data for this product please contact:

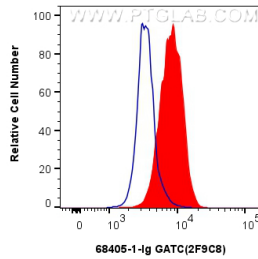
T: 4006900926

E: Proteintech-CN@ptglab.com

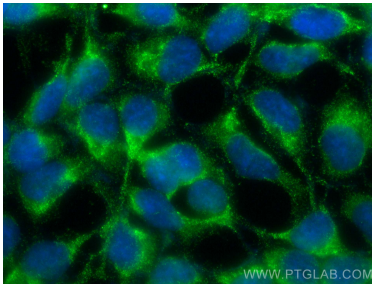
W: ptgcn.com

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Selected Validation Data



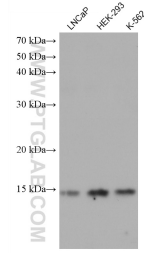
1x10⁶ HEK-293 cells were intracellularly stained with 0.25 ug GATC Monoclonal antibody (68405-1-Ig, Clone:2F9C8) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.25 ug Mouse IgG2b isotype control Mouse McAb (66360-3-Ig, Clone: 11B8C4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



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).



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.