

Rabbit anti-Human, Mouse GATB Polyclonal Antibody | anti-GATB antibody

Anti-GATB Antibody Picoband

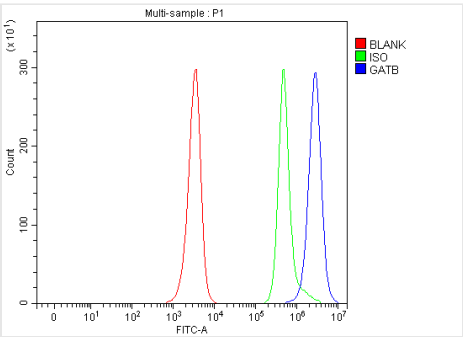
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127497	Rabbit	Human, Mouse	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

GATB; Polyclonal Antibody; Anti-GATB Antibody Picoband; anti-GATB antibody

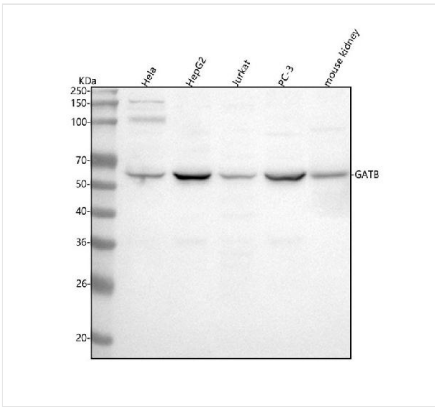
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-GATB antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human GATB recombinant protein (Position: R113-E443). Human GATB shares 89.7% amino acid (aa) sequence identity with mouse GATB.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of JK cells using anti-PET112/GATB antibody (AAA127497). Overlay histogram showing JK cells stained with AAA127497 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PET112/GATB Antibody (AAA127497, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of PET112/GATB using anti-PET112/GATB antibody (AAA127497). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HeLa whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human Jurkat whole cell lysates, Lane 4: human PC-3 whole cell lysates, Lane 5: mouse kidney tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PET112/GATB antigen affinity purified polyclonal antibody (#AAA127497) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PET112/GATB at approximately 62 kDa. The expected band size for PET112/GATB is at 62 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GATB antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-GATB antibody	Primary Antibodies
References	1. Friederich, M. W., Timal, S., Powell, C. A., Dallabona, C., Kurolap, A., Palacios-Zambrano, S., Bratkovic, D., Derks, T. G. J., Bick, D., Bouman, K., Chatfield, K. C., Damouny-Naoum, N., and 41 others. Pathogenic variants in glutamyl-tRNA(Gln) amidotransferase subunits cause a lethal mitochondrial cardiomyopathy disorder. Nature Commun. 9: 4065, 2018. Note: Electronic Article.2. Gross, M. B. Personal Communication. Baltimore, Md. 11/30/2016.3. Nagao, A., Suzuki, T., Katoh, T., Sakaguchi, Y., Suzuki, T. Biogenesis of glutaminyl-mt tRNA(Gln) in human mitochondria. Proc. Nat. Acad. Sci. 106: 16209-16214, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758894
NCBI GeneID	5188
NCBI Accession #	NP_004555.1
NCBI GenBank Nucleotide #	NM_004564.2
UniProt Accession #	O75879; Q4W5M8; Q53GP4; Q9P0S6; Q9Y2B8
Molecular Weight	61,864 Da
NCBI Official Full Name	glutamyl-tRNA(Gln) amidotransferase subunit B, mitochondrial
NCBI Official Synonym Full Names	glutamyl-tRNA amidotransferase subunit B

NCBI Official Symbol	GATB
NCBI Official Synonym Symbols	PET112; HSPC199; PET112L
NCBI Protein Information	glutamyl-tRNA(Gln) amidotransferase subunit B, mitochondrial
UniProt Protein Name	Glutamyl-tRNA(Gln) amidotransferase subunit B, mitochondrial
UniProt Gene Name	GATB
UniProt Synonym Gene Names	Glu-AdT subunit B

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/gatb-antibody-flow-cytometry-western-blot-elisa/127497>