

Rabbit GCAT Polyclonal Antibody | anti-GCAT antibody

GCAT Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289371	Rabbit	Human, mouse (Predicted Reactivity: Bovine)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

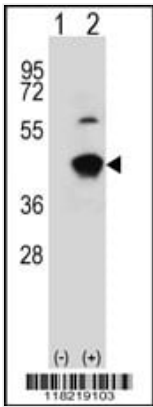
PRODUCT SYNONYMS

GCAT; Polyclonal Antibody; GCAT Antibody (Center); 2-amino-3-ketobutyrate coenzyme A ligase; mitochondrial; AKB ligase; Aminoacetone synthase; Glycine acetyltransferase; KBL; anti-GCAT antibody

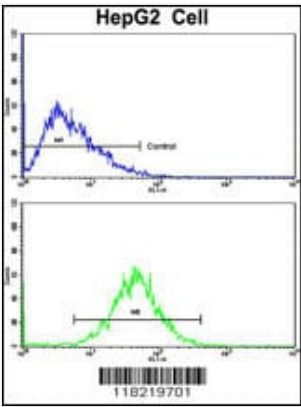
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Bovine)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This GCAT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 155-181 amino acids from the Central region of human GCAT.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	155-181
Sequence Length	445
Applicable Applications for anti-GCAT antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



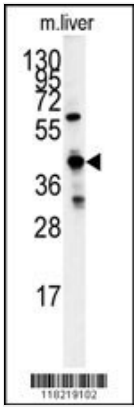
WB (Western Blot)
Western blot analysis of GCAT (arrow) using rabbit polyclonal GCAT Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the GCAT gene.



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of HepG2 cells using GCAT Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human brain reacted with GCAT Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of GCAT antibody (Center) in mouse liver tissue lysates (35ug/lane). GCAT (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-GCAT antibody	The degradation of L-threonine to glycine consists of a two-step biochemical pathway involving the enzymes L-threonine dehydrogenase and 2-amino-3-ketobutyrate coenzyme A ligase. L-Threonine is first converted into 2-amino-3-ketobutyrate by L-threonine dehydrogenase. GCAT is the second enzyme in this pathway, which then catalyzes the reaction between 2-amino-3-ketobutyrate and coenzyme A to form glycine and acetyl-CoA. The enzyme is considered a class II pyridoxal-phosphate-dependent aminotransferase.
Product Categories/Family for anti-GCAT antibody	Metabolism; Signal Transduction
References	Edgar,A.J., Polak,J.M.Eur. J. Biochem. 267 (6), 1805-1812 (2000) Tressel,T., Thompson,R., J. Biol. Chem. 261 (35), 16428-16437 (1986)

NCBI AND UNIPROT INFORMATION

NCBI GI #	284448556
NCBI GeneID	23464
NCBI Accession #	NP_001165161.1; NP_055106.1
NCBI GenBank Nucleotide #	NM_001171690.1

UniProt Accession #	O75600; Q6ZWF1; Q96CA9; E2QC23
Molecular Weight	45285
NCBI Official Full Name	2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial isoform 1
NCBI Official Synonym Full Names	glycine C-acetyltransferase
NCBI Official Symbol	GCAT
NCBI Official Synonym Symbols	KBL
NCBI Protein Information	2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial
UniProt Protein Name	2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial
UniProt Gene Name	GCAT
UniProt Synonym Gene Names	KBL; AKB ligase
UniProt Entry Name	KBL_HUMAN

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/gcat-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/289371>