

Rabbit GCAT Polyclonal Antibody | anti-GCAT antibody

GCAT Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA177304	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

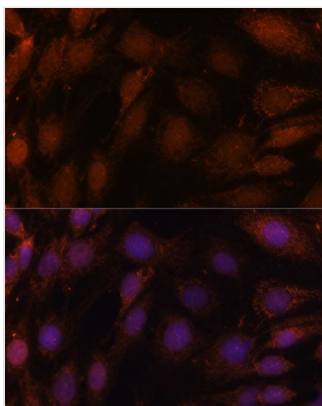
PRODUCT SYNONYMS

GCAT; Polyclonal Antibody; GCAT Polyclonal Antibody; KBL; anti-GCAT antibody

PRODUCT SPECIFICATIONS

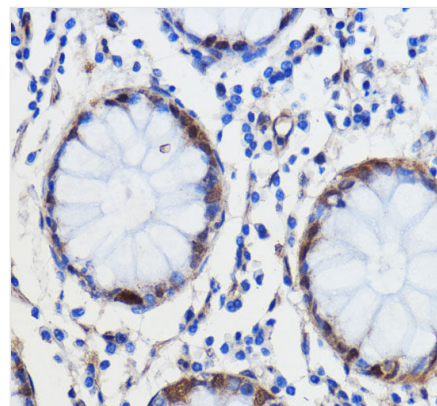
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-GCAT antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant fusion protein of human GCAT (NP_0551061)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



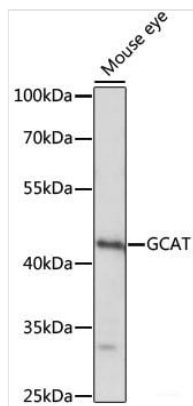
IF (Immunofluorescence)

Immunofluorescence analysis of C6 cells using GCAT Polyclonal Antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Human colon carcinoma using GCAT Polyclonal Antibody at dilution of 1:100 (40x lens).



WB (Western Blot)

Western blot analysis of extracts of Mouse eye using GCAT Polyclonal Antibody at dilution of 1:1000.

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. This gene encodes 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 encoded enzyme is considered a class II pyridoxal-phosphate-dependent aminotransferase. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 14.
Product Categories/Family for anti-GCAT antibody	Cancer; Metabolism; Signal transduction; Polyclonal Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	284448556
NCBI GeneID	23464
NCBI Accession #	NP_001165161.1
NCBI GenBank Nucleotide #	NM_001171690.1
UniProt Accession #	O75600; Q6ZWF1; Q96CA9; E2QC23
Molecular Weight	47,974 Da
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; 2-amino-3-ketobutyrate-CoA ligase; AKB ligase; aminoacetone synthase; glycine acetyltransferase
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.

