

Rabbit Anti-Rat GPT2 Monoclonal Antibody

Cat. No. CAB11548RR Lot. No. (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Rat GPT2
Species	Rat
Source	Rabbit
Antigen Description	Alanine aminotransferase (ALT), also known as glutamate pyruvate transaminase (Gpt), is a pyridoxal enzyme which catalyses the reversible interconversion of L-alanine and 2-oxoglutarate to pyruvate and L-glutamate, and plays a key role in the intermediary metabolism of glucose and amino acids. As a key enzyme for gluconeogenesis, Gpt is a widely-used serum marker for liver injury. Two ALT isoenzymes have been identified, ALT1 and ALT2 (GPT1 and GPT2), which are encoded by separate genes and share significant sequence homology, but differ in their expression patterns. Gpt1 is widely distributed and mainly expressed in intestine, liver, fat tissues, colon, muscle, and heart, in the order of high to low expression level, whereas Gpt2 expression is more restricted, mainly in liver, muscle, brain, and white adipose tissue. It has been reported that hepatic ALT2 protein is approximately four times higher in male rats than in female rats.
Specificity	Rat GPT2
Immunogen	Recombinant Rat GPT2 Protein
Isotype	Rabbit IgG

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Cross Reactivity	0331
Clone	A0332
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Rat GPT2 in WB.ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Rat GPT2. The detection limit for Rat GPT2 is approximately 0.039 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Rat GPT2.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Gpt2 glutamic pyruvate transaminase (alanine aminotransferase) 2 [<i>Rattus norvegicus</i>]
Official Symbol	Gpt2
Synonyms	GPT2; glutamic pyruvate transaminase (alanine aminotransferase) 2; alanine aminotransferase 2; glutamic pyruvate transaminase 2; glutamic-pyruvate

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	transaminase 2; ALT2; Cc2-5;
Gene ID	307759
mRNA Refseq	NM_001012057
Protein Refseq	NP_001012057
Pathway	Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	L-alanine:2-oxoglutarate aminotransferase activity;

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