

**GPT Antibody (N-term R133)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7468b****Specification**

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**GPT Antibody (N-term R133) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC-P, WB,E            |
| Primary Accession | <a href="#">P24298</a> |
| Other Accession   | <a href="#">A4IFH5</a> |
| Reactivity        | Human, Mouse, Rat      |
| Predicted         | Bovine                 |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Calculated MW     | 54637                  |
| Antigen Region    | 118-144                |

**GPT Antibody (N-term R133) - Additional Information****Gene ID** 2875**Other Names**

Alanine aminotransferase 1, ALT1, Glutamate pyruvate transaminase 1, GPT 1, Glutamic--alanine transaminase 1, Glutamic--pyruvic transaminase 1, GPT, AAT1, GPT1

**Target/Specificity**

This GPT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 118-144 amino acids from the N-terminal region of human GPT.

**Dilution**

IHC-P~~1:100

WB~~1:1000

E~~Use at an assay dependent concentration.

**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.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GPT Antibody (N-term R133) is for research use only and not for use in diagnostic or therapeutic procedures.

**GPT Antibody (N-term R133) - Protein Information**

**Name** GPT

**Synonyms** AAT1, GPT1

**Function** Catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate. Participates in cellular nitrogen metabolism and also in liver gluconeogenesis starting with precursors transported from skeletal muscles (By similarity).

**Cellular Location**

Cytoplasm.

**Tissue Location**

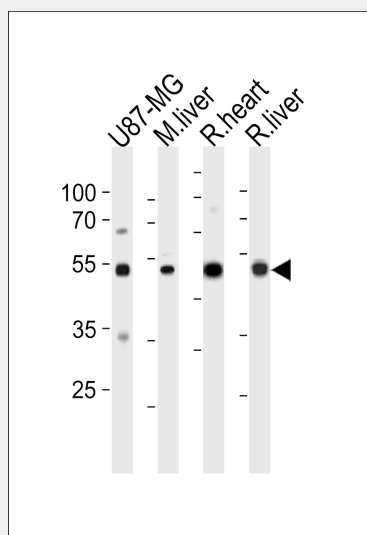
Liver, kidney, heart, and skeletal muscles. Expressed at moderate levels in the adipose tissue

### GPT Antibody (N-term R133) - Protocols

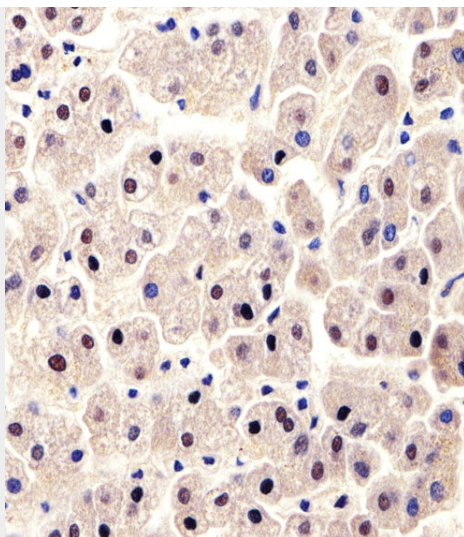
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

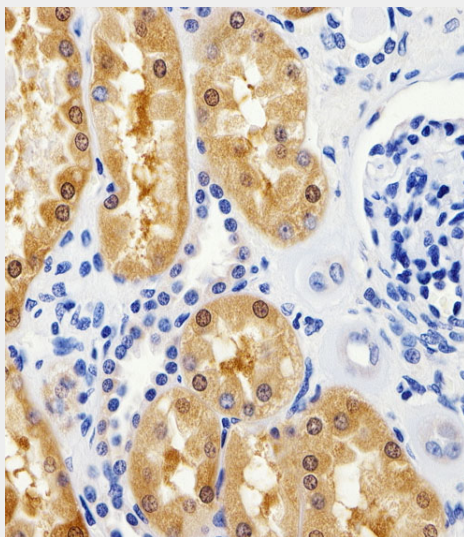
### GPT Antibody (N-term R133) - Images



GPT Antibody (N-term R133) (Cat. #AP7468b) western blot analysis in U87-MG cell line, mouse liver, and rat heart and liver tissue lysates (35ug/lane). This demonstrates the GPT antibody detected the GPT protein (arrow).



Immunohistochemical analysis of paraffin-embedded H.liver section using GPT Antibody (N-term R133)(Cat#AP7468b). AP7468b was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded H.kidney section using GPT Antibody (N-term R133)(Cat#AP7468b). AP7468b was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

#### **GPT Antibody (N-term R133) - Background**

GPT(Glutamate-pyruvate transaminase), also known as alanine aminotransferase, catalyzes the reversible conversion of L-alanine and alpha-ketoglutarate to L-glutamate and pyruvate. This protein has 2 distinct molecular and genetic forms: one cytoplasmic (soluble) (GPT1) and one mitochondrial (GPT2). See ALTQTL1 and ALTQTL2 for information on quantitative trait loci influencing the plasma level of alanine aminotransferase.

#### **GPT Antibody (N-term R133) - References**

Yang R.-Z., Blaileanu G.Genomics 79:445-450(2002)  
Ishiguro M., Takio K.Biochemistry 30:10451-10457(1991)

#### **GPT Antibody (N-term R133) - Citations**

- [Liver alanine catabolism promotes skeletal muscle atrophy and hyperglycaemia in type 2 diabetes](#)