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GPT Antibody (N-term R133)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7468b

Product Information

Application	WB, IHC-P, E
Primary Accession	P24298
Other Accession	A4IFH5
Reactivity	Human, Rat, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	54637
Antigen Region	118-144

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	WB~~1:1000 IHC-P~~1:100 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.

Protein Information

Name	GPT {ECO:0000303|PubMed:9119391, ECO:0000312|HGNC:HGNC:4552}
Function	Pyridoxal enzyme tha catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate

(PubMed:11863375). By mediating the conversion of these four major intermediate metabolites, plays an important role in gluconeogenesis and amino acid metabolism (PubMed:11863375).

Cellular Location Cytoplasm.

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

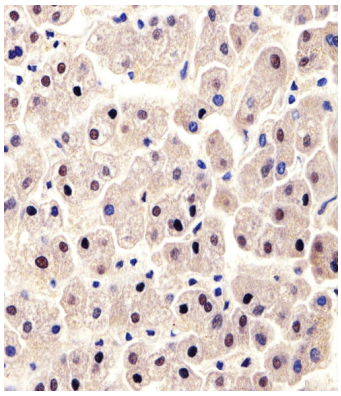
Background

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.

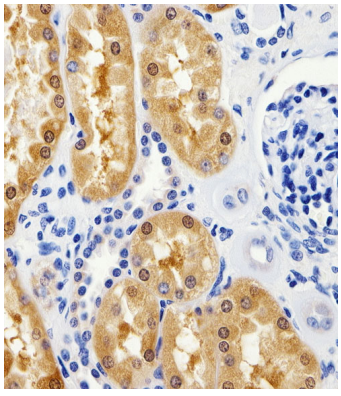
References

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

Images

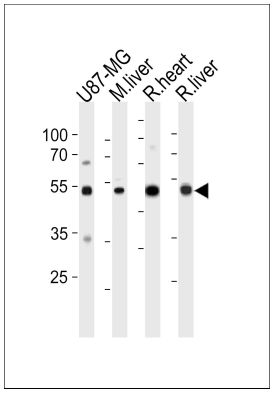


Immunohistochemical analysis of paraffin-embedded H.liver section using GPT Antibody (N-term R133)(Cat#AP7468b). AP7468b was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



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) (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).



Citations

- Liver alanine catabolism promotes skeletal muscle atrophy and hyperglycaemia in type 2 diabetes

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.