

For Research Use Only

GPT/ALT1 Monoclonal antibody

Catalog Number: 67531-1-Ig



Basic Information

Catalog Number:

67531-1-Ig

Concentration:

2000 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG10453

GenBank Accession Number:

BC018207

GeneID (NCBI):

2875

UNIPROT ID:

P24298

Full Name:

glutamic-pyruvate transaminase
(alanine aminotransferase)

Calculated MW:

496 aa, 55 kDa

Observed MW:

52 kDa

Purification Method:

Protein G purification

CloneNo.:

5F6B5

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human, mouse, rat, pig

Positive Controls:

WB : human milk, pig heart tissue, pig liver tissue, rat liver tissue, mouse liver tissue, rabbit heart tissue

IF/ICC : HepG2 cells,

Background Information

GPT, also known as ALT1 (glutamate-pyruvate transaminase 1), catalyzes the reversible transamination between alanine and 2-oxoglutarate to generate pyruvate and glutamate and, therefore, plays a key role in the intermediary metabolism of glucose and amino acids. Serum activity levels of this enzyme are routinely used as a biomarker of liver injury caused by drug toxicity, infection, alcohol, and steatosis. A related gene on chromosome 16 encodes a putative mitochondrial alanine aminotransaminase.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

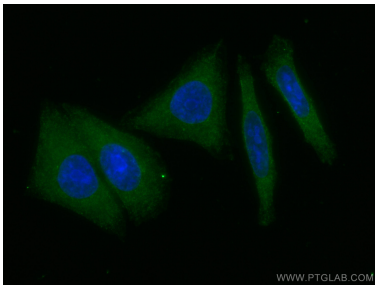
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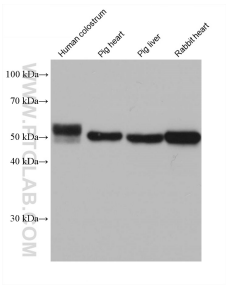
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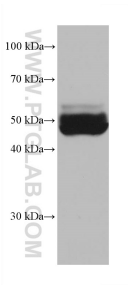
Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using GPT antibody (67531-1-Ig, Clone: 5F6B5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 67531-1-Ig (GPT/ALT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



mouse liver tissue were subjected to SDS PAGE followed by western blot with 67531-1-Ig (GPT/ALT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.