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GPT Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a full length recombinant GPT.
Catalog # AT2254a

Specification

GPT Antibody (monoclonal) (M03) - Product Information

Application	**WB, E**
Primary Accession	P24298
Other Accession	BC018207
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**54637**

GPT Antibody (monoclonal) (M03) - 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
GPT (AAH18207.1, 1 a.a. ~ 496 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
GPT Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

GPT Antibody (monoclonal) (M03) - Protocols

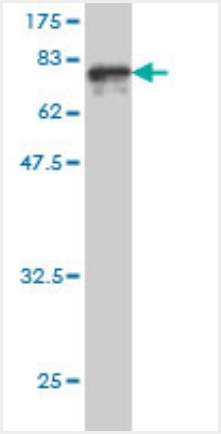
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

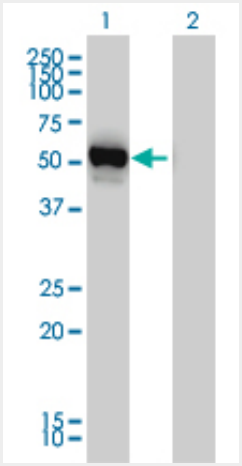
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- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GPT Antibody (monoclonal) (M03) - Images



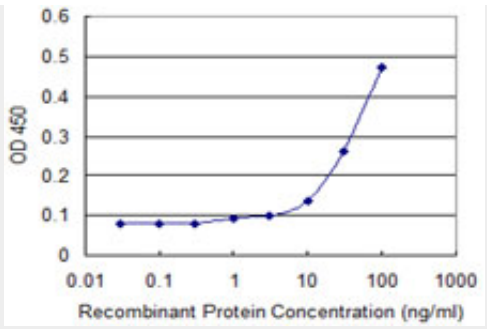
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (80.3 KDa) .



Western Blot analysis of GPT expression in transfected 293T cell line by GPT monoclonal antibody (M03), clone 4E2.

Lane 1: GPT transfected lysate(55 KDa).
Lane 2: Non-transfected lysate.

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Detection limit for recombinant GST tagged FLJ23834 is approximately 1ng/ml as a capture antibody.

GPT Antibody (monoclonal) (M03) - Background

This gene encodes cytosolic alanine aminotransaminase 1 (ALT1); also known as glutamate-pyruvate transaminase 1. This enzyme 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.

GPT Antibody (monoclonal) (M03) - References

Higher levels of alanine aminotransferase within the reference range predict unhealthy metabolic phenotypes of obesity in normoglycemic first-degree relatives of patients with type 2 diabetes mellitus. Mojiminiyi OA, et al. J Clin Hypertens (Greenwich), 2010 Apr. PMID 20433554.[Relations between ALT level and count of HBV special CTL and non-specific CTL in patients with chronic hepatitis B] Gu XB, et al. Zhonghua Shi Yan He Lin Chuang Bing Du Xue Za Zhi, 2009 Oct. PMID 20387481.Relation of coffee consumption and serum liver enzymes in Japanese men and women with reference to effect modification of alcohol use and body mass index. Ikeda M, et al. Scand J Clin Lab Invest, 2010 Apr 19. PMID 20205615.Relationship between serum HBV DNA level and liver histology in HBV carriers with normal ALT in Guilan province, Iran. Mansour-Ghanaei F, et al. Med Sci Monit, 2010 Feb 26. PMID 20190678.Usefulness of GPT for diagnosis of metabolic syndrome in obese Japanese children. Abe Y, et al. J Atheroscler Thromb, 2009. PMID 20032584.