10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GPT Antibody (monoclonal) (M03)

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

Product Information

Application	WB, E
Primary Accession	P24298
Other Accession	BC018207
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	4E3
Calculated MW	54637

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 E~~N/A
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.

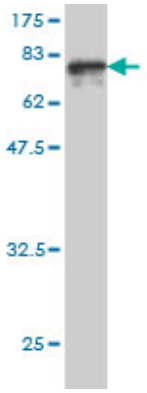
Background

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.

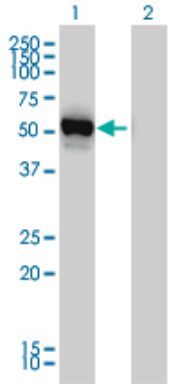
References

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.

Images

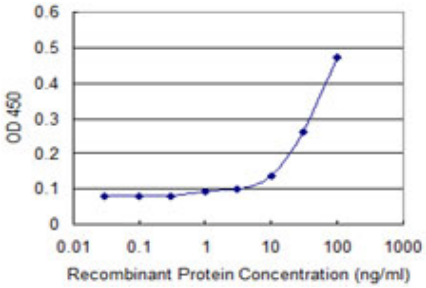


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (80.3 KDa) .



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.



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

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