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

PNPLA2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PNPLA2.
Catalog # AT3363a

Product Information

Application	WB, E
Primary Accession	Q96AD5
Other Accession	NM_020376
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2H1
Calculated MW	55316

Additional Information

Gene ID	57104
Other Names	Patatin-like phospholipase domain-containing protein 2, Adipose triglyceride lipase, Calcium-independent phospholipase A2, Desnutrin, IPLA2-zeta, Pigment epithelium-derived factor, TTS22, Transport-secretion protein 2, TTS2, PNPLA2, ATGL
Target/Specificity	PNPLA2 (NP_065109, 347 a.a. ~ 446 a.a) partial 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	PNPLA2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

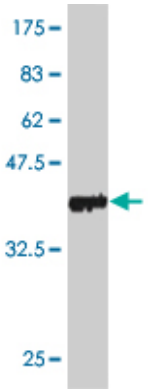
This gene encodes an enzyme which catalyzes the first step in the hydrolysis of triglycerides in adipose tissue. Mutations in this gene are associated with neutral lipid storage disease with myopathy.

References

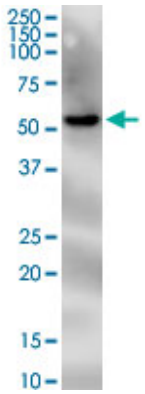
High frequency of ETFDH c.250G>A mutation in Taiwanese patients with late-onset lipid storage myopathy. Lan MY, et al. Clin Genet, 2010 Mar 29. PMID 20370797.Rare ATGL haplotypes are associated with increased

plasma triglyceride concentrations in the Greenland Inuit. Johansen CT, et al. Int J Circumpolar Health, 2010 Feb. PMID 20167152.Chronic TNFalpha and cAMP pre-treatment of human adipocytes alter HSL, ATGL and perilipin to regulate basal and stimulated lipolysis. B?zaire V, et al. FEBS Lett, 2009 Sep 17. PMID 19695247.Characterization of desnutrin functional domains: critical residues for triacylglycerol hydrolysis in cultured cells. Duncan RE, et al. J Lipid Res, 2010 Feb. PMID 19692632.Contribution of adipose triglyceride lipase and hormone-sensitive lipase to lipolysis in hMADS adipocytes. Bezaire V, et al. J Biol Chem, 2009 Jul 3. PMID 19433586.

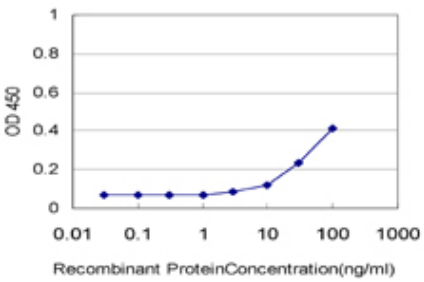
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



PNPLA2 monoclonal antibody (M01), clone 2H1. Western Blot analysis of PNPLA2 expression in PC-12.



Detection limit for recombinant GST tagged PNPLA2 is approximately 3ng/ml as a capture antibody.