



ATGL Rabbit mAb

Catalog No	YP-rAb-17722
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,IP,ELISA
Gene Name	PNPLA2 ATGL FP17548
Protein Name	Patatin-like phospholipase domain-containing protein 2 (Adipose triglyceride lipase) (Calcium-independent phospholipase A2) (Desnutrin) (IPLA2-zeta) (Pigment epithelium-derived factor) (TTS2.2) (Transport-secretion protein 2) (TTS2)
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	
Observed Band	55kD
Calculated Molecular Weight	55kD
Cell Pathway	Lipid droplet . Cell membrane ; Multi-pass membrane protein . Cytoplasm .
Tissue Specificity	Highest expression in adipose tissue. Also detected in heart, skeletal muscle, and portions of the gastrointestinal tract. Detected in normal retina and retinoblastoma cells. Detected in retinal pigment epithelium and, at lower intensity, in the inner segments of photoreceptors and in the ganglion cell layer of the neural retina (at protein level).
Function	Catalyzes the initial step in triglyceride hydrolysis in adipocyte and non-adipocyte lipid droplets . Exhibits a strong preference for the hydrolysis of long-chain fatty acid esters at the sn-2 position of the glycerol backbone and acts coordinately with LIPE/HLS and DGAT2 within the lipolytic cascade (By similarity). Also possesses acylglycerol transacylase and phospholipase A2 activities . Transfers fatty acid from triglyceride to retinol, hydrolyzes retinylesters, and generates 1,3-diacylglycerol from triglycerides . Regulates adiposome size and may be involved in the degradation of adiposomes . May play an important role in energy

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热销产品:

蛋白、一抗、抗体对、ELISA试剂盒、生化试剂盒
CCK8试剂盒、QPCR检测试剂盒

检测服务:

ELISA检测及定制服务 | 生化检测 | PCR、QPCR检测 | WB检测
ICO-IP检测 | 切片 | 染色 | 免疫组化 | 免疫荧光 | 透射电镜全套
| 宏基因组、转录组、基因组、蛋白组、代谢组测序



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homeostasis (By similarity). May play a role in the response of the organism to starvation, enhancing hydrolysis of triglycerides and providing free fatty acids to other tissues to be oxidized in situations of energy depletion (By similarity).

Background

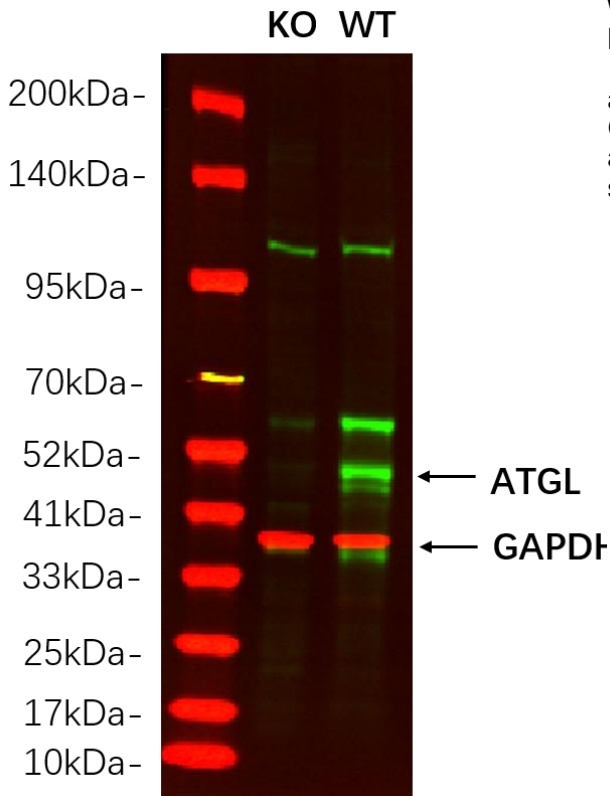
This gene encodes an enzyme which catalyzes the first step in the hydrolysis of triglycerides in adipose tissue. Mutations in this gene are associated with neutral lipid storage disease with myopathy. [provided by RefSeq, Jul 2010]

matters needing attention

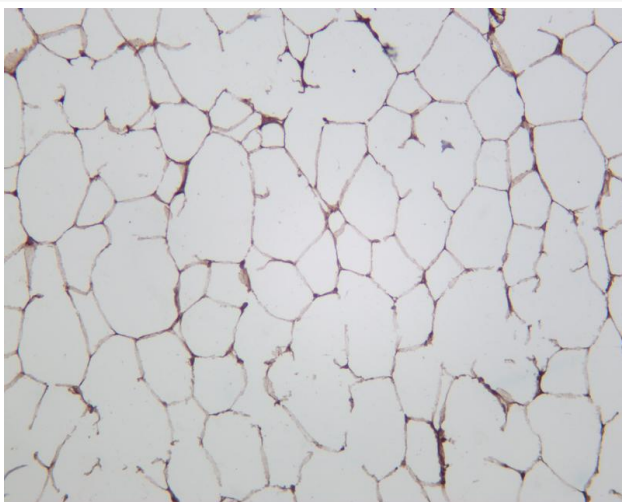
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

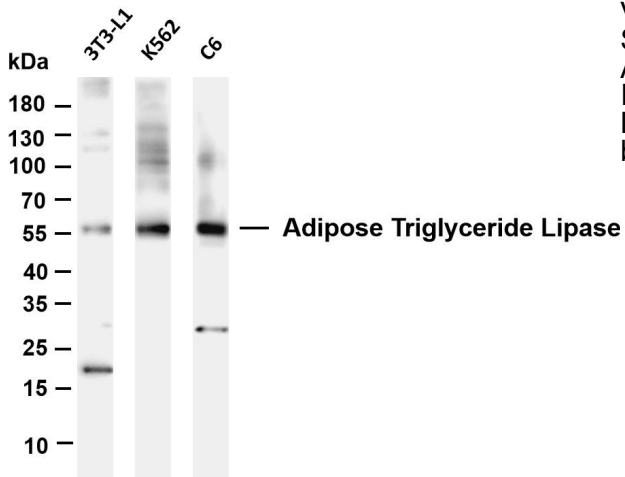


Western blot analysis of lysates from HAP1 WT and knockout cell. (Green) primary antibody was diluted at 1:5000, 4° over night, Dylight 800 secondary antibody was diluted at 1:10000, 37° 1hour. (Red) GAPDH Monoclonal Antibody(5B7) antibody was diluted at 1:5000 as loading control, 4° over night, Dylight 680 secondary antibody was diluted at 1:10000, 37° 1hour.



Rat white adipose was stained with anti-ATGL rabbit antibody





Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-ATGL antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: 3T3-L1 Lane 2: K562 Lane 3: C6 Predicted band size: 55kDa Observed band size: 55kDa

