ARG56526
anti-PNPLA2 / ATGL antibody

Package: 250 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PNPLA2 / ATGL
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PNPLA2 / ATGL
Species	Human
Immunogen	Synthetic peptide around aa. 382-400 of Human Adipose Triglyceride Lipase (ATGL). (KRKLGRHLPSRLPEQVELR)
Conjugation	Un-conjugated
Alternate Names	Transport-secretion protein 2; Pigment epithelium-derived factor; TTS2.2; FP17548; 1110001C14Rik; TTS2; PEDF-R; IPLA2-zeta; ATGL; Calcium-independent phospholipase A2; TTS-2.2; Patatin-like phospholipase domain-containing protein 2; iPLA2zeta; Desnutrin; Adipose triglyceride lipase; EC 3.1.1.3

Application Instructions

Application table

Application	Dilution
IHC-P	1:65
WB	1:200

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

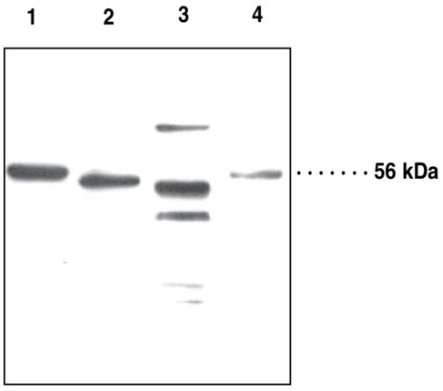
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	TBS (pH 7.4)
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	PNPLA2
Gene Full Name	patatin-like phospholipase domain containing 2
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]
Function	Catalyzes the initial step in triglyceride hydrolysis in adipocyte and non-adipocyte lipid droplets. Also has acylglycerol transacylase activity. May act coordinately with LIPE/HLS within the lipolytic cascade. Regulates adiposome size and may be involved in the degradation of adiposomes. May play an important role in energy homeostasis. 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. [UniProt]
Calculated Mw	55 kDa
PTM	Phosphorylation at Ser-404 by PKA is increased during fasting and moderate intensity exercise, and moderately increases lipolytic activity (By similarity). Phosphorylation at Ser-404 is increased upon beta-adrenergic stimulation.

Images



ARG56526 anti-PNPLA2 / ATGL antibody WB image

Western blot: 1) 50 µg of Human liver microsome, 2) 50 µg of HepG2 cell lysate, 3) 50 µg of Rat brown fat homogenate, and 4) 50 µg of Mouse liver 100,000 x g pellet stained with ARG56526 anti-PNPLA2 / ATGL antibody.