

Rabbit Anti-Perilipin A antibody

SL3789R

Product Name:	Perilipin A V
Chinese Name:	脂滴包被蛋白Perilipin-A抗体 《 《 》
Alias:	Lipid droplet associated protein; Lipid droplet-associated protein; PERI; Perilipin; Perilipin-1; Perilipin 1; PerilipinA; Perilipin-A; PLIN; PLIN1; PLIN1_HUMAN.
文献引用 Pub ^l ∭ed :	Specific References(1) SL3789R has been referenced in 1 publications.
	[IF=4.05]Stelmanska, Ewa, Sylwia Szrok, and Julian Swierczynski. "Progesterone
	induced down regulation of hormone sensitive lipase (Lipe) and up-regulation of G0/G1
	switch 2 (G0s2) genes expression in inguinal adipose tissue of female rats is reflected by
	diminished rate of lipolysis." The Journal of Steroid Biochemistry and Molecular
	Biology (2014).WB;Rat.
	PubMed:25448749
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100- 500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	57kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Perilipin-1:85-180/522
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized
Storago:	antibody is stable at room temperature for at least one month and for greater than a year
Stor age.	when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of
	antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
PubMed:	PubMedPerilipins, members of the PAT protein family (named after lipid droplet proteins Perilipin, Adipophilin, and TIP47) are found exclusively at the surface of lipid droplets in adipocytes and steroidogenic cells. They have been suggested to function as regulators of lipolysis and triacylglycerol storage within adipose tissue. Four distinct isoforms ranging from perilipin A (57 kDa) to perilipin D (26 kDa) have been identified and they share an identical amino terminal sequences, and contain 2–6 consensus protein kinase A (PKA) phosphorylation sites. Perilipin C and D have been detected only in steroidogenic cells. Perilipin A is the most abundant form on the lipid droplets of adipocytes. The phosphorylation of perilipin by PKA, which is accompanied by the phosphorylation and translocation of hormone-sensitive lipase from the cytosol to the lipid droplets, promotes lipolysis. There is evidence for the presence of perilipin A in atheroma plaques suggesting that the protein may be involved in the development of therosclerosis by controlling as in adipocytes the hydrolysis of stored lipids.Function: Modulator of adipocyte lipid metabolism. Coats lipid storage droplets to protect them from breakdown by hormone-sensitive lipase (HSL). Its absence may result in leanness.Subunit: Interacts with ABHD5.
Product Detail:	
	Subcellular Location:
	Lipid droplet. Note=Lipid droplet surface-associated.
	Tissue Specificity: Adipocytes.
	Post-translational modifications: Major cAMP-dependent protein kinase-substrate in adipocytes, also dephosphorylated by PP1. When phosphorylated, may be maximally sensitive to HSL and when unphosphorylated, may play a role in the inhibition of lipolysis, by acting as a barrier in lipid droplet.
	DISEASE: Defects in PLIN1 are the cause of familial partial lipodystrophy type 4 (FPLD4) [MIM:613877]. FPLD4 is a form of lipodystrophy characterized by loss of subcutaneous adipose tissue primarily affecting the lower limbs, insulin-resistant diabetes mellitus, hypertriglyceridemia, and hypertension.
	Similarity: Belongs to the perilipin family.

SWISS:

O60240

Gene ID: 5346

Database links:

Entrez Gene: 520598Cow

Entrez Gene: 5346Human

Entrez Gene: 103968 Mouse

Entrez Gene: 25629Rat

Omim: 170290Human

SwissProt: A4IFB3Cow

SwissProt: O60240Human

SwissProt: Q8CGN5Mouse

SwissProt: P43884Rat

Unigene: 103253Human

Unigene: 254917Mouse

Unigene: 9737Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

????脂肪细胞中贮存的甘油三酯的水解是人和动物体内精细调节的动态平衡过程, 与维持机体能量的动态平衡和代谢正常密切相关。Perilipin

piotech.com

A是成熟脂肪细胞中脂滴膜上表达量较多的一种结构和功能蛋白,是多条脂解通路 的终末靶点之一,对脂肪细胞的脂肪分解起着关键的调控作用.

????perilipin可能在脂肪分解调控中起到"分子开关"的作用。蛋白激酶A(PKA)、细胞外信号调节激酶(ERK)等Signal

transduction通路参与了脂肪分解。Tumour坏死因子仅(TNFα)、过氧化物酶体增殖 物激活受体γ(PPAγ)激动剂、瘦素(leptin)均可以影响perilipin的表达。近年来研究, perilipin可通过蛋白酶体途径来调节其蛋白量的表达。脂肪分解调控中的关键蛋白p erilipin对2型Diabetes、肥胖、动脉粥样硬化等多种代谢性疾病及Cardiovascular疾病 相关联。









Paraformaldehyde-fixed, paraffin embedded (rat ovary); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Perilipin A) Polyclonal Antibody, Unconjugated (SL3789R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.