For Research Use Only

Perilipin 1 Polyclonal antibody

Catalog Number:27716-1-AP 7 Publications



Basic Information	Catalog Number: 27716-1-AP	GenBank Accession Number: NM_001145311 GeneID (NCBI): 5346 UNIPROT ID: 060240 Full Name: perilipin Calculated MW: 56 kDa		Purification Method: Antigen affinity purification				
	Size: 150ul, Concentration: 450 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG26426			Recommended Dilutions: WB 1:1000-1:8000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:200-1:800 IF-P 1:50-1:500				
					Observed MW: 62-67 kDa			
					Applications	Tested Applications:	Positive Controls:	
				Cited Applications:			WB : 3T3-L1 liver tissue	WB : 3T3-L1 cells, MCF-7 cells, NIH/3T3 cells, mouse liver tissue IP : NIH/3T3 cells,
		WB, IHC, IF		IP:NIH/3T3				
Species Specificity:		IHC : mouse	: mouse brown adipose tissue,					
Cited Species:	IF-P : mouse brown adipose tissue,							
human, mouse, sheep, goat								
TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0								
Background Information	PLIN1, also known as Perilipin 1, PLIN, PERI, belongs to the perilipin family. PLIN1 is a hormonally-regulated phosphoprotein that encircles the lipid storage droplet in adipocytes and modulates adipocyte lipid metabolism (PMID: 2040638). PLIN1 is the major cAMP-dependent protein kinase substrate in adipocytes and, when unphosphorylated, may play a role in inhibiting lipolysis. PLIN1 is detected in adipocytes of white adipose tissue, visceral adipose tissue, and mammary gland (PMID: 27832861, 9521880). The deficiency of PLIN1 causes lipodystrophic syndromes, which disables the optimal accumulation of triglycerides in adipocytes that results in abnormal deposition of lipids in tissues such as skeletal muscle and liver. The storage of lipids in the liver leads to insulin resistance and hypertriglyceridemia (PMID: 21345103).							
Notable Publications	Author Pu	bmed ID	lournal	Application				
	Wei Zhang 39	691379	Front Vet Sci	WB				
	Hao Yu 38	936833	Biol Reprod	WB				
	Meiling Liu 38	971123	J Plast Reconstr Aes	sthet Surg IF				
Storage	Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3							
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20°C :	storage						
For technical support and original validation da	ta for this product please contact:		This product is	s ovclusivalu available under Proteint				

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Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse brown adipose tissue using PLIN1 antibody (27716-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 27716-1-AP (Perilipin 1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 27716-1-AP (PLIN1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-Perilipin 1 (IP:27716-1-AP, 4ug; Detection:27716-1-AP 1:2000) with NIH/3T3 cells lysate 1505 ug.



Immunohistochemical analysis of paraffinembedded mouse brown adipose tissue slide using 27716-1-AP (Perilipin 1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse brown adipose tissue slide using 27716-1-AP (Perilipin 1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brown adipose tissue using PLIN1 antibody (27716-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).