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Goat Anti-Perilipin (C Terminus) Antibody

Peptide-affinity purified goat antibody
Catalog # AF1812a

Specification

Goat Anti-Perilipin (C Terminus) Antibody - Product Information

Application	**WB, IF, E**
Primary Accession	O60240
Other Accession	NP_002657, 5346, 25629 (rat)
Reactivity	**Human**
Predicted	**Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**55990**

Goat Anti-Perilipin (C Terminus) Antibody - Additional Information

Gene ID 5346

Other Names
Perilipin-1, Lipid droplet-associated protein, PLIN1, PERI, PLIN

Dilution
WB~~1:1000
IF~~1:50~200
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-Perilipin (C Terminus) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Perilipin (C Terminus) Antibody - Protein Information

Name PLIN1

Synonyms PERI, PLIN

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. Plays a role in unilocular lipid droplet formation by activating CIDEC. Their interaction promotes lipid droplet enlargement and directional net neutral lipid transfer. May modulate lipolysis and triglyceride levels.

Cellular Location
Endoplasmic reticulum. Lipid droplet. Note=Lipid droplet surface-associated.

Tissue Location
Detected in adipocytes from white adipose tissue (at protein level) (PubMed:27832861). Detected in visceral adipose tissue and mammary gland (PubMed:9521880)

Goat Anti-Perilipin (C Terminus) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-Perilipin (C Terminus) Antibody - Images

AF1812a (0.5 µg/ml) staining of Human Adipose lysate (35 µg protein in RIPA buffer). Detected by chemiluminescence.

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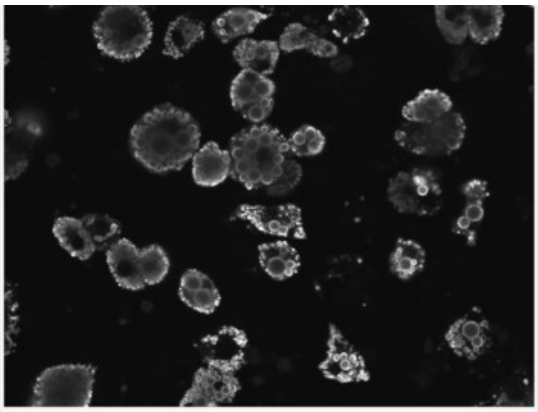
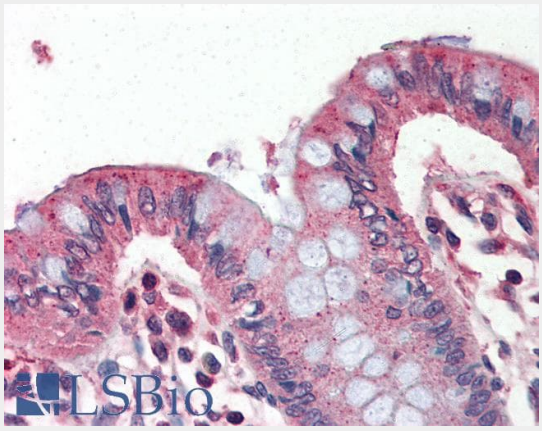


AF1812a staining of differentiated 3T3-L1 adipocytes. Data kindly provided by Prof. J. Granneman, Detroit, USA. **This data is from a previous batch, not on sale.**



AF1812a (4 µg/ml) staining of paraffin embedded Human Colon. Steamed antigen retrieval with citrate buffer pH 6, AP-staining. **This data is from a previous batch, not on sale.**

Goat Anti-Perilipin (C Terminus) Antibody - Background

The protein encoded by this gene coats lipid storage droplets in adipocytes, thereby protecting them until they can be broken down by hormone-sensitive lipase. The encoded protein is the major cAMP-dependent protein kinase substrate in adipocytes and, when unphosphorylated, may play a role in the inhibition of lipolysis. Alternatively spliced transcript variants varying in the 5' UTR, but encoding the same protein, have been found for this gene.

Goat Anti-Perilipin (C Terminus) Antibody - References

Physiogenomic analysis of statin-treated patients: domain-specific counter effects within the ACACB gene on low-density lipoprotein cholesterol? Rua□o G, et al. Pharmacogenomics, 2010 Jul. PMID 20602615.
Association of lifestyle factors, polymorphisms in adiponectin, perilipin and hormone sensitive lipase, and clinical markers in Japanese males. Sone Y, et al. J Nutr Sci Vitaminol (Tokyo), 2010. PMID 20495294.
Association study of 182 candidate genes in anorexia nervosa. Pinheiro AP, et al. Am J Med Genet B Neuropsychiatr Genet, 2010 Jul. PMID 20468064.
Perilipin gene 1237 T > C polymorphism is not associated with obesity risk in northern Chinese Han adults. Hu DS, et al. Biomed Environ Sci, 2009 Oct. PMID 20163070.
Expression of perilipin and adipophilin in nonalcoholic fatty liver disease; relevance to oxidative injury and hepatocyte ballooning. Fujii H, et al. J Atheroscler Thromb, 2009. PMID 20032580.