

## Product datasheet for **AP33140SU-N**

### ADFP (PLIN2) (N-term, 1-16) Guinea Pig Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Immunoblotting (Western blot):</b> 1/2000. <b>Immunohistochemistry on Frozen Sections:</b> 1/100. <b>Immunohistochemistry on Paraffin Sections:</b> 1/100 (after microwave treatment). For staining protocol see Ohsaki et al. <b>Cytological Material.</b> <b>Incubation Time:</b> 1 h at Room temperature or overnight at 2-8°C.
Reactivity:	Human
Host:	Guinea Pig
Clonality:	Polyclonal
Immunogen:	Synthetic peptide (N-terminal aa 1-16 of Human Adipophilin).
Specificity:	Specific for Adipophilin / ADRP, MW 48,100 (calculated from aa sequence data); apparent Mr 52,000 (after SDS-PAGE); pI 6.72. The antibody recognizes N-terminal aa 1-16 of Human Adipophilin 2 (PLIN2). <b>Tissue Immunolocalization:</b> Adipophilin / PLIN2 is positively detected in the glandular cells of lactating mammary gland (ductal cells are negative), zona fasciculata of the adrenal gland, Sertoli cells of the testis, and in fat-accumulating hepatocytes of alcoholic cirrhotic fatty liver; adipocytes are negative. Also positively stained are lipid-storing CD 68-positive macrophages. <b>Tested Reactivities on Cultured Cell Lines:</b> PLC.
Formulation:	State: Serum State: Liquid Stabilized Antiserum Preservative: 0.09% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	perilipin 2
Database Link:	<a href="#">Entrez Gene 123 Human Q99541</a>



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- Background:** Adipophilin / ADRP (a member of the PAT family) is a ubiquitous component of lipid droplets. It has been found in milk fat globule membranes and on the surface of lipid droplets in various cultured cell lines (see e.g. Heid et al.; for review see e.g. Targett-Adams et al.); inducible by etomoxir. Enhanced expression of Adipophilin / ADRP is a useful marker for pathologies characterized by increased lipid droplet accumulation. Such diseases include atheroma, steatosis, obesity and certain cases of liposarcoma. It also seems to be a potent marker for atherosclerosis. ADRP can also be used to study the virus entry of e.g. HCV via lipid droplets (see e.g. Hope et al.).
- Synonyms:** Adipose differentiation-related protein, ADRP
- Protein Families:** Druggable Genome