

## Product datasheet for **AP33137SU-N**

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

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Immunoblotting (Western blot):</b> 1/2000. <b>Immunohistochemistry on Frozen Sections:</b> 1/100. For staining protocols see ref. <i>Ohsaki et al.</i> <b>Immunofluorescence:</b> 1/100. <b>Cytological Material.</b> <i>Incubation Time:</i> 1 h at room temperature or overnight at 2-8°C.
Reactivity:	Mouse
Host:	Guinea Pig
Clonality:	Polyclonal
Immunogen:	Synthetic peptide (N-terminal aa 1-16 of Mouse Adipophilin).
Specificity:	Specific for Adipophilin / ADRP / PLIN2, MW 46,646 (calculated from aa sequence data); apparent Mr 50,000 (after SDS-PAGE); pI 6.42 <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; adipocytes are negative. <b>Tested Reactivities on Cultured Cell Lines:</b> 3T3-L1 (mouse preadipocytes), OP9 (derived from mouse bone marrow), HL-1 (derived from AT-1 mouse cardiomyocyte tumor lineage).
Formulation:	State: Serum State: Liquid Stabilized Antiserum Preservative: 0.09% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	perilipin 2
Database Link:	<a href="#">Entrez Gene 11520 Mouse P43883</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