

Product datasheet for **BM5051**

ADFP (PLIN2) (5-27) Mouse Monoclonal Antibody [Clone ID: AP125]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AP125
Applications:	IF, IHC, WB
Recommended Dilution:	Immunohistochemistry on Frozen Tissue: 1/10 - 1/100 in PBS, pH 7.4 (See <i>Ohsaki et al.</i> for staining protocols). Immunohistochemistry on Paraffin-Embedded Tissue: 1/10 - 1/100 (After microwave treatment). Incubate 1 h at RT or over night at 2-8°C. (See <i>Straub et al.</i> 2008 for staining protocols). Cytological Material. Immunoblotting (Western blot): 0.2 µg/ml using ECL has been reported for previous batch numbers.
Reactivity:	Canine, Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide corresponding to aa 5-27 from N-terminus of Human Adipophilin.
Specificity:	Polypeptide Reacting: Adipophilin / ADRP, MW 48,100 (calculated from aa sequence data); apparent Mr 52,000 (after SDS-PAGE); pI 6.72. Tissue Immunolocalization: Adipophilin 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. Tested Reactivity on Cultured Cell lines: Caco, PLC, HaCat, SV80, RD 125, Huvec (Human umbilical cord endothelia), RV, PC-12 (rat adrenal gland), MDCK. Negative with glioma. Negative Species: Bovine and Mouse.
Formulation:	Final solution contains 0.09% Sodium Azide and 0.5% BSA in PBS buffer, pH 7.4 State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with 1.0 ml distilled water



[View online »](#)

Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	Entrez Gene 123 Human Q99541
Background:	Adipophilin / ADRP / PLIN 2 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. 1998; for review see e.g. Targett-Adams et al.); inducible by etomoxir. Enhanced expression of Adipophilin / ADRP / PLIN2 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 virus entry via lipid droplets (see e.g. Hope et al., Samsa et al.).
Synonyms:	Adipose differentiation-related protein, ADRP