

Product: Anti-Adipophilin (ADRP)
Catalog #: 03-GP41
Amount: 25 µl

CATEGORY: Guinea pig Polyclonal (GP41 hCTA/B)
FORM: Stabilized Antiserum, containing 0.1% sodium azide
IMMUNOGEN: Synthetic Peptide of human Adipophilin (aa 423-437, C-terminal)
DESCRIPTION/SPECIFICITY: Adipophilin / ADRP 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.).
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. Specific detection of liposarcoma. Also positive stained are lipid-storing CD68-positive macrophages.

ANTIGEN RECOGNIZED IN

SPECIES (tested so far): Human

REACTIVITIES IN CULTURE

CELL LINES (tested so far): PLC, SV80

APPLICATION: Immunohistochemistry on frozen (see Ohsaki et al.) and paraffin tissues after microwave treatment
Immunoblotting (western, ECL)
Cytological material

WORKING DILUTION: 1:100 for Immunohistochemistry applications

1:2000 for Immunoblotting (western, ECL)

INCUBATION TIME: 1 hour at room temperature (extended with paraffin)

STORAGE: 2-8°C for immediate use, or at -20°C (aliquot)

REFERENCES:

- Heid, HW et al. (1996) *Biochem J.* **320**: 1025-1030
Mrozinski, J et al. (1999) *J. Cancer Res&Clin. Oncol.* **125** supplement
Than, NG et al. (1999) *Tumor Biol.* **20**: 184-192
Hope, RG et al. (2000) *J. General Virol.* **81**: 1913-1925
Ostermeyer, AG. Et al.(2001) *J. Cell Biol.* **152**: 1071-1078
Fukumoto, S. et al. (2002) *Histochem Cell Biol* **118**: 423-428
Buechler, C. et al. (2001) *Biochim Biophys Acta* **1532**: 97-104
Ohsaki, Y. et al. (2005) *Histochem Cell Biol* **124**: 445-452
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