Product datasheet

anti-Perilipin 2 (N-terminus aa 1-29) guinea pig polyclonal, serum

Short overview

Cat. No.	GP40
Quantity	100 µl

Product description

Host	Guinea pig
Antibody Type	Polyclonal
Immunogen	Synthetic peptide (N-terminal aa 1-29 of human and murine adipophilin)
Formulation	Contains 0.09% sodium azide
UniprotID	Q99541 (Human), P43883 (Mouse)
Synomym	Perilipin-2, Adipophilin, Adipose differentiation-related protein, ADRP, PLIN2, ADFP
Note	Centrifuge prior to opening
Conjugate	Unconjugated
Purification	Stabilized antiserum
Storage	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
Intended use	Research use only
Application	ICC/IF, IHC, WB
Reactivity	Human, Mouse

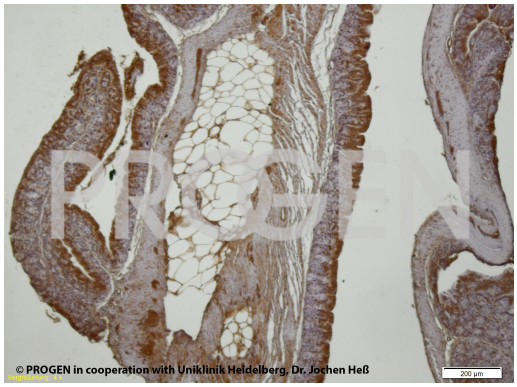
Applications

Immunocytochemistry (ICC)	1:100-1:200
Immunohistochemistry (IHC) - paraffin	1:100-1:500 (microwave treatment recommended)
Western Blot (WB)	1:500-1:1,000

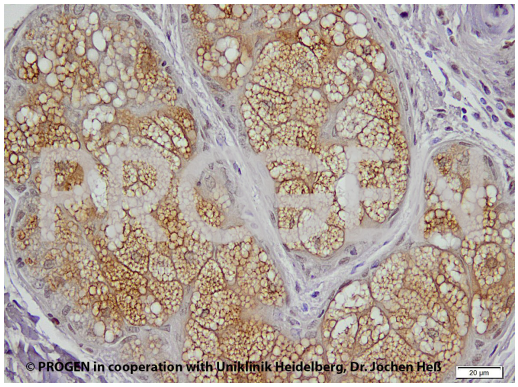
Background

Perilipin 2/Adipophilin/ADRP/PLIN2 (a member of the PLIN/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; inducible by etomoxir.Enhanced expression of Perilipin 2/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 the virus entry via lipid droplets.Polypeptide reacting: specific for Perilipin 2/Adipophilin/ADRP/PLIN2, MW 48,100 (calculated from aa sequence data); apparent Mr 52,000 (after SDS-PAGE); pI 6.72.Immunolocalization: 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.

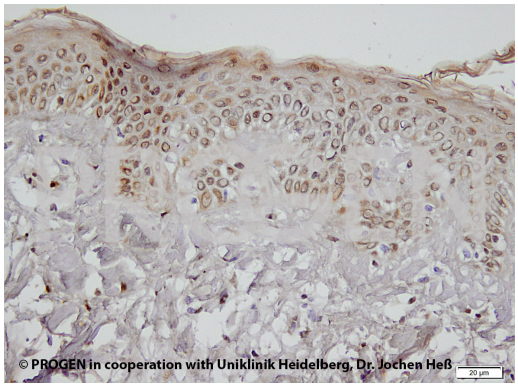
Product images



Mouse colon (courtesy of J.Hess, University Hospital Heidelberg)



Human skin (courtesy of J.Hess, University Hospital Heidelberg)



Human skin (courtesy of J.Hess, University Hospital Heidelberg)

References

Publication	Species	Application
Pierre, L., Juszczak, F., et al., AMPK protects proximal tubular epithelial cells from lysosomal dysfunction and dedifferentiation induced by lipotoxicity., Autophagy 21, 860-880, (2025)		IF
Chen, Y. et al. Migrasomes from adipose derived stem cells enrich CXCL12 to recruit stem cells via CXCR4/RhoA for a positive feedback loop mediating soft tissue regeneration. J Nanobiotechnology 22, 219 (2024).	mouse	
Doncheva, A. I. et al. Altered hepatic lipid droplet morphology and lipid metabolism in fasted Plin2-null mice. J Lipid Res 64, (2023).		WB
Hofer, P., et al., Cooperative lipolytic control of neuronal triacylglycerol by spastic paraplegia-associated enzyme DDHD2 and ATGL., J Lipid Res 64, 100457, (2023)		WB
Ouni, M., et al., Differences in DNA methylation of HAMP in blood cells predicts the development of type 2 diabetes., Mol Metab 75, 101774, (2023)		IHC

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