

Product datasheet

anti-Perilipin 2 (N-terminus) mouse monoclonal, AP125, liquid, purified, sample

Short overview

Cat. No.	690102S
Quantity	200 µl
Concentration	50 µg/ml (10 µg)

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	AP125
Immunogen	Synthetic peptide (aa 5-27 from N-terminus of human adipophilin/PLIN2)
Formulation	PBS buffer, pH 7.4 with 0.09% sodium azide and 0.5 % BSA
UniprotID	A0A5F4CRI5 (Dog, Canis familiaris), Q99541 (Human), Q5U2U5 (Rat)
Synonym	Perilipin-2, Adipophilin, Adipose differentiation-related protein, ADRP, PLIN2, ADFP
Conjugate	Unconjugated
Purification	Affinity chromatography
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	IHC, WB
Reactivity	Dog, Human, Rat
No reactivity	Bovine

Applications

Immunohistochemistry (IHC) - frozen	1:10-1:100 (0.5-5 µg/ml)
Immunohistochemistry (IHC) - paraffin	1:10-1:100 (0.5-5 µg/ml; microwave treatment recommended)
Western Blot (WB)	1:50-1:100 (0.5-1 µg/ml)

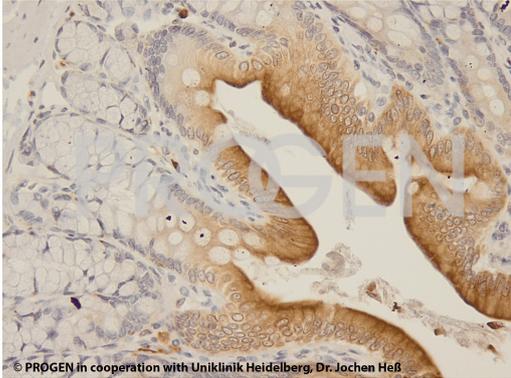
Background

Perilipin 2/Adipophilin/ADRP/PLIN2 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 virus entry via lipid droplets. Polypeptide reacting: Perilipin 2/Adipophilin/ADRP/PLIN2, MW 48,100 (calculated from aa sequence data); apparent Mr 52,000 (after SDS-PAGE); pI 6.72. Immunolocalization: Perilipin 2/Adipophilin/ADRP/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. Tested cultured cell lines: PLC, PROGEN Biotechnik GmbH | Maaßstraße 30 | D-69123 Heidelberg

MDCK.

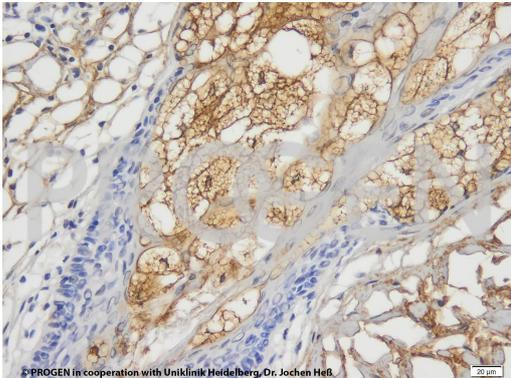
Learn more about PROGEN Perilipin antibodies.

Product images



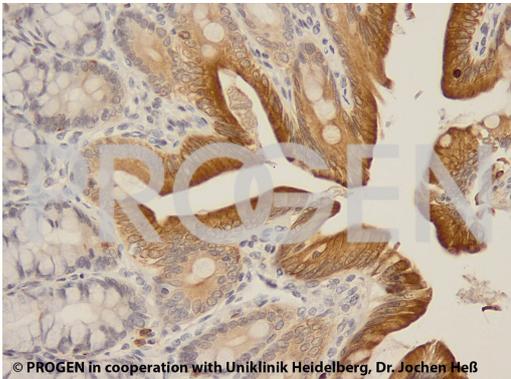
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IHC of rat colon (courtesy of J.Heß, University Hospital Heidelberg)



© PROGEN in cooperation with Uniklinik Heidelberg, Dr. Jochen Heß

IHC of human skin (courtesy of J.Heß, University Hospital Heidelberg)



© PROGEN in cooperation with Uniklinik Heidelberg, Dr. Jochen Heß

IHC of rat colon (courtesy of J.Heß, University Hospital Heidelberg)

References

Publication	Species	Application
Maeno, A. et al. A case of spontaneous Zymbal's gland carcinoma with lung metastasis in an aged Fischer 344 rat. J Toxicol Pathol. 34, 353-358(2021).	rat	IHC (paraffin)
Robenek, H., Lorkowski, S., Schnoor, M. & Troyer, D. Spatial Integration of TIP47 and Adipophilin in Macrophage Lipid Bodies*. J. Biol. Chem. 280, 5789-5794 (2004).	human	WB,ICC-IF,IEM
Bianchi, C. et al. The glucose and lipid metabolism reprogramming is grade-dependent in clear cell renal cell carcinoma primary cultures and is targetable to modulate cell viability and proliferation. Oncotarget. 8, 113502-113515 (2017).	human	WB
Straub, B. K., Stoeffel, P., Heid, H., Zimbelmann, R. & Schirmacher, P. Differential pattern of lipid droplet-associated proteins and de novo perilipin expression in hepatocyte steatogenesis. Hepatology 47, 1936-1946 (2008).	human	WB,IHC
Graham Hope, R. & McLauchlan, J. Sequence motifs required for lipid droplet association and protein stability are unique to the hepatitis C virus core protein. J. Gen. Virol. 81, 1913-1925 (2000).	syrian hamster	WB