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)
Synomym	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)

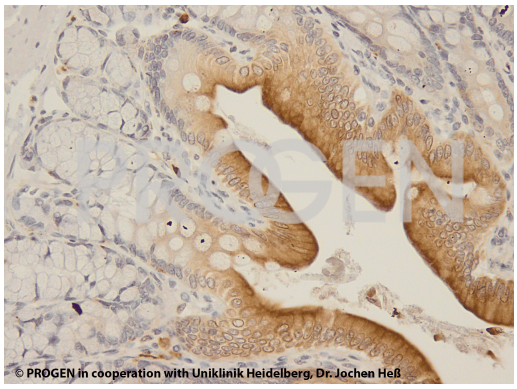
Background

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,

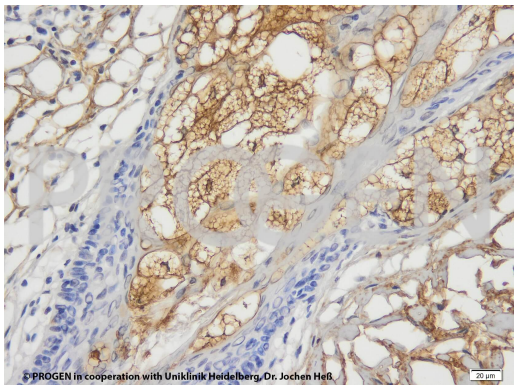
MDCK.

Learn more about PROGEN Perilipin antibodies.

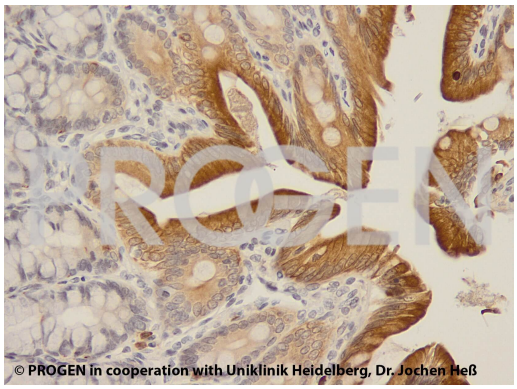
Product images



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



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



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

References

Publication	Species	Application
Hayakawa, M. et al. Lipid droplet accumulation and adipophilin expression in follicular thyroid carcinoma. Biochem. Biophys. Res. Commun. 640, 192â€“201 (2023).	human	ICC-IF
Hara, Y. et al. A novel homozygous missense mutation in PNPLA2 in a patient manifesting primary triglyceride deposit cardiomyovasculopathy., Mol Genet Metab Rep 34, 100960, (2023).	human	IHC
Schmitt D. et al. Lipid and protein content profiling of isolated native autophagic vesicles., EMBO Rep, 23, e53065, (2022).	human	WB
Kamerkar, S. et al. Metabolic and immune-sensitive contacts between lipid droplets and endoplasmic reticulum reconstituted inÂ vitro., Proc Natl Acad Sci U S A 119, e2200513119, (2022).	rat	WB
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)