

Product datasheet

anti-Perilipin 5 (C-terminus) guinea pig polyclonal, serum

Short overview

Cat. No.	GP31
Quantity	100 µl

Product description

Host	Guinea pig
Antibody Type	Polyclonal
Immunogen	Synthetic peptide (C-terminal aa 451-463 of human MLDP; CPVKHTLMPELDF)
Formulation	Contains 0.09% sodium azide
UniprotID	A6QLL0 (Bovine), Q00G26 (Human), Q8BVZ1 (Mouse), M0R7Z9 (Rat)
Synonym	Perilipin-5, Lipid storage droplet protein 5, PLIN5, LSDP5, OXPAT, PAT-1
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
Reactivity	Bovine, Human, Mouse, Rat

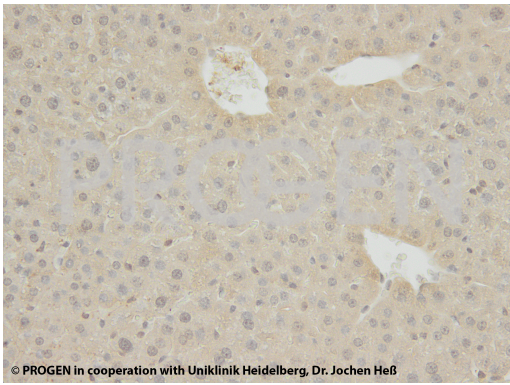
Applications

Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	1:100-1:300
Immunohistochemistry (IHC) - paraffin	1:100-1:300 (microwave treatment recommended)

Background

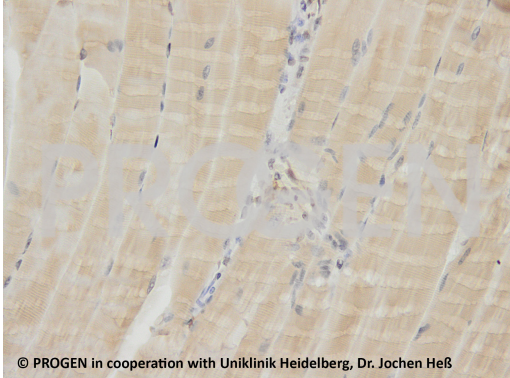
Polypeptide reacting: MLDP = myocardial lipid droplet protein (also described as OXPAT/PAT-1 and perilipin 5/PLIN5), MW 50,844 (calculated from aa sequence data); apparent Mr 52,000 (after SDS-PAGE) MLDP/PLIN5 pertains to the PLIN/PAT-family proteins, covering the surface of cytoplasmic lipid droplets and sharing a homologous domain called PAT. No cross-reactivity with additional PLIN/PAT proteins (including adipophilin/ADRP/PLIN2, perilipin/PLIN1, and TIP47/PLIN3) which are expressed in differentiation-related stages of lipid metabolism. Immunolocalization: MLDP/ PLIN5 is positively detected in heart and skeletal muscle.

Product images



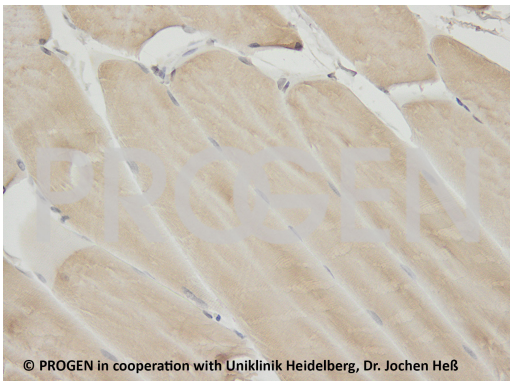
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Mouse liver (courtesy of J.Hess, University Hospital Heidelberg)



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



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Rat skeletal muscles (courtesy of J.Hess, University Hospital Heidelberg)

References

Publication	Species	Application
Talbot, H. et al. Formation and characterization of lipid droplets of the bovine corpus luteum. Sci.Rep. 10, 11287 (2020)	bovine	WB
Irunbam, K. et al. Cannabinoid receptor 1 knockout alleviates hepatic steatosis by downregulating perilipin 2. Lab.Invest. 100, 454-465 (2020)	mouse	WB
Zhu, Y. et al. Perilipin5 protects against lipotoxicity and alleviates endoplasmic reticulum stress in pancreatic β^2-cells. Nutr.Metab.(Lond). 16, 50 (2019)	mouse,rat	WB
Lian, J. et al. Ces1d deficiency protects against high-sucrose diet-induced hepatic triacylglycerol accumulation. J.Lipid.Res. 60, 880-891 (2019)	mouse	WB
Mardani, I. et al. Plin2-deficiency reduces lipophagy and results in increased lipid accumulation in the heart. Sci.Rep. 9, 6909 (2019)	mouse	WB,ICC-IF