

Product datasheet

anti-Perilipin 1,2,5 sample set

Short overview

Cat. No.	70012
Quantity	600 µl each antibody

Product description

Host	Guinea pig, Mouse
Antibody Type	Monoclonal, Polyclonal
Immunogen	See individual antibody datasheet for information about specific immunogens
Note	Centrifuge prior to opening
Conjugate	Unconjugated
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	See individual antibody datasheet

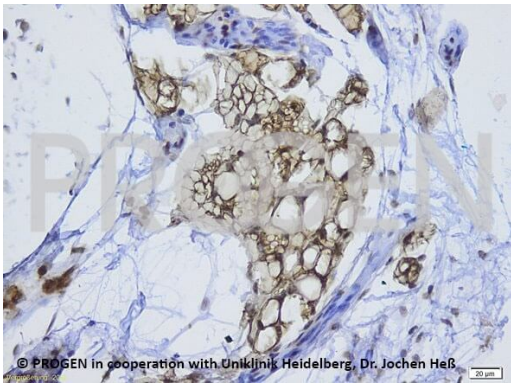
Applications

Immunohistochemistry (IHC) - frozen	Ready-to-use
Immunohistochemistry (IHC) - paraffin	Ready-to-use
Western Blot (WB)	Assay dependent

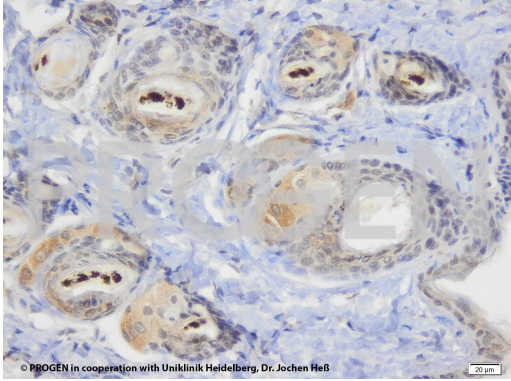
Background

Lipid droplets (LD) are highly recognized in biomedical research and pathology. These organelles are found in nearly all cell types and tissues and the composition of lipidic material varies strongly, depending on their storage or transport function. LDs are linked to several diseases like diabetes, obesity, liposarcoma, atherosclerosis, lipid droplet biogenesis, viral and bacterial infection. Perilipins / PAT family proteins- 5 subtypes: perilipin 1-5 (PLIN1- PLIN5)- Located in the membrane of LDs- Characterization of LD subpopulations and multifunctional properties (lipid transport, lipogenesis and lypolysis)- Analysis of viral or bacterial infection pathways (targeting LDs)The anti-Perilipin 1,2,5 sample set provides antibodies directed against Perilipin 1, 2 and 5 to evaluate the presence and status in IHC and WB. The set contains enough antibody to perform stainings on 6-12 sections per antibody. Set content: Cat. No. GP29S, anti-Perilipin 1 (N-terminus) guinea pig polyclonal, serum, sampleCat. No. 610102S, anti-Perilipin 2 (N-terminus) mouse monoclonal, AP125, purified, sampleCat. No. GP31S, anti-Perilipin 5 (C-terminus) guinea pig polyclonal, serum, sample

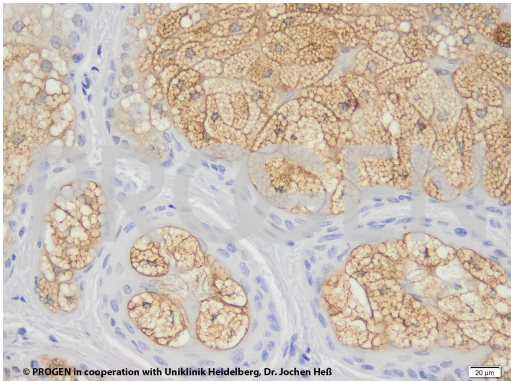
Product images



IHC of mouse trachea using anti-Perilipin 1 (Cat. No. GP29) (courtesy of J.Heß, University Hospital Heidelberg)



IHC of mouse skin using anti-Perilipin 2 (Cat. No. 610102) (courtesy of J.Heß, University Hospital Heidelberg)



IHC of human skin using anti-Perilipin 2 (Cat. No. 610102) (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
Mizunoe, Y. et al. Cathepsin B overexpression induces degradation of perilipin 1 to cause lipid metabolism dysfunction in adipocytes. Sci.Rep. 10, 634 (2020)	mouse	IHC (paraffin)
Zhou, H. et al. Berardinelli-Seip congenital lipodystrophy 2/SEIPIN determines brown adipose tissue maintenance and thermogenic programming. Mol.Metab. 36, 100971 (2020)	mouse	WB
Irunbam, K. et al. Cannabinoid receptor 1 knockout alleviates hepatic steatosis by downregulating perilipin 2. Lab.Invest. 100, 454-465 (2020)	mouse	WB
Müller, G. et al. CB1 Receptor-Dependent and Independent Induction of Lipolysis in Primary Rat Adipocytes by the Inverse Agonist Rimonabant (SR141716A). Molecules. 25, (2020)	rat	WB