Product datasheet

anti-Perilipin 1-5 complete sample set

Short overview

Cat. No.	70010
Quantity	600 µl each antibody

Product description

Host	Guinea pig
Antibody Type	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	ICC/IF, IHC, WB
Reactivity	See individual antibody datasheet

Applications

Immunocytochemistry (ICC)	Assay dependent (anti-Perilipin 1, Cat. No. GP29S and anti-Perilipin 3, Cat. No. GP30S not tested)
Immunohistochemistry (IHC) - frozen	Ready-to-use (anti-Perilipin 2, Cat. No. GP40S not tested)
Immunohistochemistry (IHC) - paraffin	Ready-to-use (anti-Perilipin 4, Cat. No. GP34S not tested)
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

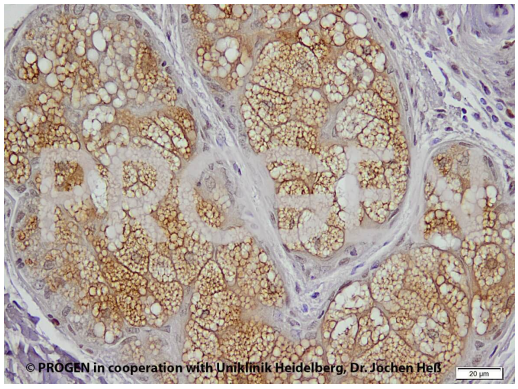
- Characterization of LD subpopulations and multifunctional properties (lipid transport, lipogenesis and lypolysis)

- Analysis of viral or bacterial infection pathways (targeting LDs)

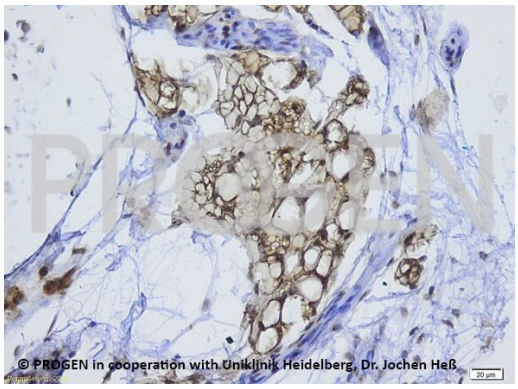
The anti-Perilipin 1-5 complete sample set provides antibodies directed against all 5 Perilipins to evaluate the presence and status in IHC and WB. The set contains enough antibody to perform stainings on 6-12 sections per antibody.

Set content: Cat. No. GP29S, anti-Perilipin 1 (N-terminus) guinea pig polyclonal, serum, sampleCat. No. GP40S, anti-Perilipin 2 (N-terminus aa 1-29) guinea pig polyclonal, serum, sampleCat. No. GP30S, anti-Perilipin 3 (N-terminus) guinea pig polyclonal, serum, sampleCat. No. GP34S, anti-Perilipin 4 (C-terminus) guinea pig polyclonal, serum, sampleCat. No. GP31S, anti-Perilipin 5 (C-terminus) guinea pig polyclonal, serum, sample

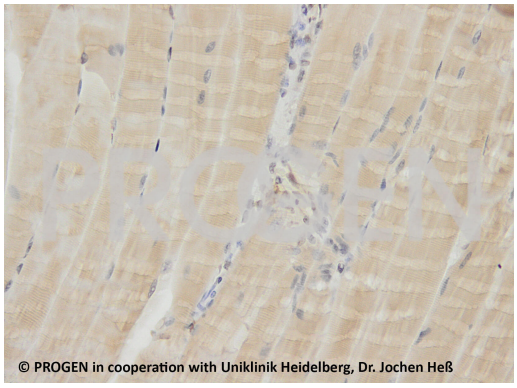
Product images



IHC of human skin using anti-Perilipin 2 antibody (Cat. No. GP40) (courtesy of J.Heß, University Hospital Heidelberg)



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



IHC of mouse skeletal muscles using anti-Perilipin 5 (Cat. No. GP31) (courtesy of J.Heß, University Hospital Heidelberg)

References

Publication	Species	Application
Tadepalle, N. et al. Microtubule-dependent and independent roles of spastin in lipid droplet dispersion and biogenesis. Life.Sci.Alliance. 3, (2020)	mouse	WB,ICC-IF
Tang, J. et al. Obesity-associated family with sequence similarity 13, member A (FAM13A) is dispensable for adipose development and insulin sensitivity. Int.J.Obes.(Lond). , (2018)	human,mouse	WB