

## Product datasheet

### anti-Perilipin 3 (N-terminus) guinea pig polyclonal, serum

#### Short overview

<b>Cat. No.</b>	GP30
<b>Quantity</b>	100 µl

#### Product description

<b>Host</b>	Guinea pig
<b>Antibody Type</b>	Polyclonal
<b>Immunogen</b>	Synthetic peptide of TIP47 N-terminus (aa 1-16)
<b>Formulation</b>	Contains 0.09% sodium azide and 0.5% BSA
<b>UniprotID</b>	Q3SX32 (Bovine), O60664 (Human), Q9DBG5 (Mouse), M0RA08 (Rat)
<b>Synonym</b>	Perilipin-3, 47 kDa mannose 6-phosphate receptor-binding protein, 47 kDa MPR-binding protein, Cargo selection protein TIP47, Mannose-6-phosphate receptor-binding protein 1, Placental protein 17, PP17, PLIN3, M6PRBP1, TIP47
<b>Note</b>	Centrifuge prior to opening
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Stabilized antiserum
<b>Storage</b>	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
<b>Intended use</b>	Research use only
<b>Application</b>	ICC/IF, IHC, WB
<b>Reactivity</b>	Human, Mouse, Rat

#### Applications

<b>Immunocytochemistry (ICC)</b>	1:100
<b>Immunohistochemistry (IHC) - frozen</b>	1:100-1:500
<b>Immunohistochemistry (IHC) - paraffin</b>	1:100-1:500 (microwave treatment recommended)
<b>Western Blot (WB)</b>	1:500-1:2,000

#### Background

TIP47 (tail-interacting protein of 47 kDa; also named PLIN3) is involved in lipid droplet maturation. The protein has been localized in milk fat globule membranes of human and bovine origin. It has been described also as a placental protein. Increased amounts of TIP47 are secreted into circulation of cervix carcinoma patients. After radical surgery TIP47 serum levels are decreased (Than et al. 1999). TIP47 shows about 40% sequence homology to adipophilin (PLIN2). The GP30 antiserum, however, is specific for TIP47 (PLIN3) and does not cross-react with adipophilin (PLIN2) and perilipin (PLIN1) or other proteins of the PLIN/PAT family. Reactivity on cultured cell lines: PLC cells, pretreated with oleic acid.

Than, N. G., Sumegi, B., Than, G. N., Kispal, G. & Bohn, H. Cloning and sequencing of human oncodevelopmental soluble placental tissue protein

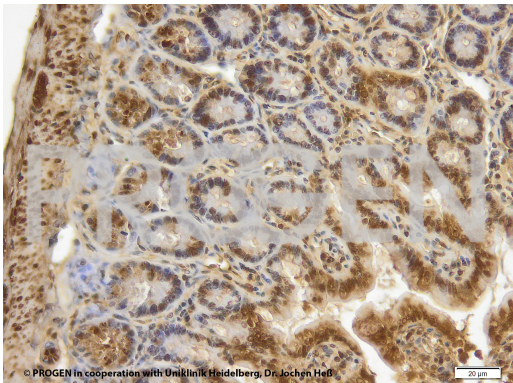
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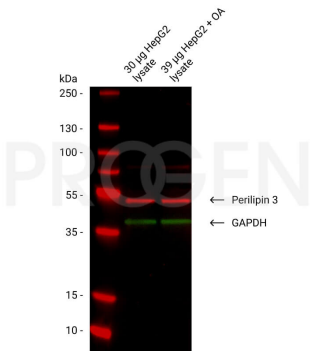
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17 (PP17): homology with adipophilin and the mouse adipose differentiation-related protein. Tumour Biol. J. Int. Soc. Oncodevelopmental Biol. Med. 20, 184-92 (1999).

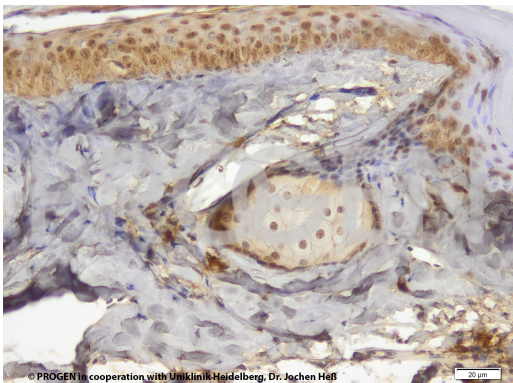
Product images



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



Western blot analysis of HepG2 cell lysate with anti-Perilipin 3 antibody. Western blot analysis was performed on 30 ug HepG2 lysate and 39 ug HepG2 + OA lysate. Cells were previously treated with 400 uM oleic acid (OA) if indicated. Cells were lysed with RIPA buffer. The PVDF membrane was blocked with 5% dry milk in PBST (PBS + 0.1% Tween 20) for 1 h at RT. The primary antibodies anti-Perilipin 3 (N-terminus) guinea pig polyclonal (Cat. No. GP30) and anti-GAPDH were diluted in blocking buffer (1:500 anti-Perilipin, 1.2 ug/ml anti-GAPDH, Cat. No. 690975) and incubated at 4°C over-night. The secondary antibodies donkey anti-guinea pig A647 and goat anti-mouse A488 were also diluted in blocking buffer (both 1:300) and incubated for 1 h at RT. The bands were visualized by fluorescent detection.



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

## References

Publication	Species	Application
<a href="#">Churin, Y. et al. Lipid Storage and Interferon Response Determine the Phenotype of Ground Glass Hepatocytes in Mice and Humans. Cmh 12, 383â€“394 (2021).</a>	Human	IHC-P-IF
<a href="#">SoÅtysik, K. et al. Nuclear lipid droplets derive from a lipoprotein precursor and regulate phosphatidylcholine synthesis. Nat.Commun. 10, 473 (2019)</a>	human	ICC-IF
<a href="#">Chen, Y. et al. Delayed recruiting of TPD52 to lipid droplets â€ evidence for a â€œsecond waveâ€ of lipid droplet-associated proteins that respond to altered lipid storage induced by Brefeldin A treatment. Sci. Rep. 9, (2019).</a>	human	ICC-IF, WB
<a href="#">Heid, H. et al. Lipid droplets, perilipins and cytokeratins--unravelling liaisons in epithelium-derived cells. PLoS One 8, (2013).</a>	human	WB,ICC-IF
<a href="#">Dahlhoff, M. et al. PLIN2, the major perilipin regulated during sebocyte differentiation, controls sebaceous lipid accumulation in vitro and sebaceous gland size in vivo NIH Public Access. Biochim. Biophys. Acta 1830, 4642-4649 (2013).</a>	human	WB,IHC (paraffin)