

## Product datasheet

### anti-Perilipin 4 (N-terminus) guinea pig polyclonal, serum

#### Short overview

<b>Cat. No.</b>	GP38
<b>Quantity</b>	100 µl

#### Product description

<b>Host</b>	Guinea pig
<b>Antibody Type</b>	Polyclonal
<b>Immunogen</b>	Synthetic peptide (N-terminal aa 1-15 of human S3-12; MQLGSFFGSLPGFSS-C, coupled to KLH)
<b>Formulation</b>	Contains 0.09% sodium azide and 0.5% BSA
<b>UniprotID</b>	Q96Q06 (Human)
<b>Synonym</b>	Perilipin-4, Adipocyte protein S3-12, PLIN4, KIAA1881
<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

#### Applications

<b>Immunocytochemistry (ICC)</b>	Assay dependent
<b>Immunohistochemistry (IHC) - frozen</b>	1:100-1:200
<b>Immunohistochemistry (IHC) - paraffin</b>	1:100-1:200 (microwave treatment recommended)
<b>Western Blot (WB)</b>	1:2,000

#### Background

Polypeptide reacting: S3-12 (also named PLIN4), apparent Mr 140,000 (after SDS-PAGE). S3-12 pertains to the PLIN (Perilipin)/PAT-family proteins, covering the surface of cytoplasmic lipid droplets. Additional PAT proteins include adipophilin (ADRP, perilipin 2), TIP47 (perilipin 3), and MLDP (OXPAT/PAT-1 or LSDP5, or perilipin 5) which are expressed in differentiation-related stages of lipid metabolism.

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.

Tissue Immunolocalization: S3-12 is positively detected in lipid droplets of cultured cells.

Reactivities on cultured cell lines: PLC (human).

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## Product images



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## References

Publication	Species	Application
<a href="#">Heid, H. et al. On the formation of lipid droplets in human adipocytes: the organization of the perilipin-vimentin cortex. PLoS One 9, e90386 (2014).</a>	human	WB,ICC-IF
<a href="#">Heid, H. et al. Lipid droplets, perilipins and cytokeratins--unravelling liaisons in epithelium-derived cells. PLoS One 8, (2013).</a>	human	ICC-IF

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