**Product datasheet**

**Anti-Perilipin-1 antibody ab61682**

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### Overview

**Product name**  Anti-Perilipin-1 antibody  
**Description**  Goat polyclonal to Perilipin-1  
**Host species**  Goat  
**Tested applications**  Suitable for: WB  
**Species reactivity**  Reacts with: Mouse, Human  
**Immunogen**  Synthetic peptide corresponding to Human Perilipin-1 (C terminal).  
**Sequence:**  EPILGRAQYSRLKK  
**Positive control**  WB: Human adipose lysate. ICC/IF: Differentiated 3T3-L1 adipocytes.

### Properties

**Form**  Liquid  
**Storage instructions**  Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.  
**Storage buffer**  Preservative: 0.02% Sodium Azide  
Constituents: 0.5% BSA, Tris buffered saline, pH 7.3  
**Purity**  Immunogen affinity purified  
**Clonality**  Polyclonal  
**Isotype**  IgG

### Applications

Our Abpromise guarantee covers the use of **ab61682** in the following tested applications.  
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 56 kDa (predicted molecular weight: 56 kDa).</td>
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</tbody>
</table>

**Target**

**Function**
Modulator of adipocyte lipid metabolism. Coats lipid storage droplets to protect them from breakdown by hormone-sensitive lipase (HSL). Its absence may result in leanness.

**Tissue specificity**
Adipocytes.

**Sequence similarities**
Belongs to the perilipin family.

**Post-translational modifications**
Major cAMP-dependent protein kinase-substrate in adipocytes, also dephosphorylated by PP1. When phosphorylated, may be maximally sensitive to HSL and when unphosphorylated, may play a role in the inhibition of lipolysis, by acting as a barrier in lipid droplet.

**Cellular localization**
Lipid droplet. Lipid droplet surface-associated.

**Images**

![Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Perilipin-1 antibody (ab61682)](ab61682 staining Perilipin-1 in human adipose tissue sections by Immunohistochemistry (IHC-P - Formalin/PFA-fixed, paraffin-embedded sections). Tissue was fixed with 10% buffered formalin and blocked with 5% serum for 1 hour at 4°C; antigen retrieval was by heat mediation in 10mM sodium citrate buffer, pH 6. Samples were incubated with the primary antibody (1/100) for 12 hours at 4°C. A Cy3®-conjugated donkey anti-goat IgG polyclonal (1/200) was used as the secondary antibody.]

![Western blot - Anti-Perilipin-1 antibody (ab61682)](Anti-Perilipin-1 antibody (ab61682) at 0.01 µg/ml + Human Adipose lysate at 35 µg

**Predicted band size:** 56 kDa

**Observed band size:** 56 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Perilipin-1 antibody (ab61682)
This image is courtesy of an anonymous Abreview.

ab61682 staining Perilipin-1 in mouse adipose tissue sections by Immunohistochemistry (IHC-P - Formalin/PFA-fixed, paraffin-embedded sections). Tissue was fixed with 10% buffered formalin and blocked with 5% serum for 1 hour at 21°C; antigen retrieval was by heat mediation in 10mM sodium citrate buffer, pH 6. Samples were incubated with the primary antibody (1/100) for 12 hours at 4°C. A Cy3™-conjugated donkey anti-goat IgG polyclonal (1/200) was used as the secondary antibody.

Immunocytochemistry/ Immunofluorescence - Anti-Perilipin-1 antibody (ab61682)

Small lipid droplets preferentially stained in the periphery of differentiated 3T3-L1 adipocytes by ab61682 at a dilution of 1µg/ml.

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