



## PRODUCT DATA SHEET

**Product:** Anti-Perilipin A/B pAb

**Cat. No.:** PC-192 (100 µL)

**Description:**

Adipose tissue is an energy reserve in animals and is strictly regulated in non-domestic species. Adipose cells produce and secrete numerous physiologically important proteins, such as lipoprotein lipase (LPL), leptin, adipocyte complement related protein of 30 kDa (Acrp30), resistin, and perilipin. Perilipin is an intracellular neutral lipid droplet protein that is hormonally regulated. This protein is localized exclusively to the surface of lipid droplets. In response to lipolytic stimuli, perilipin is phosphorylated by protein kinase A. Once activated, perilipin has inhibitory effects upon hormone-sensitive lipase (HSL), a protein that mediates the hydrolysis of triacylglycerol, the major form of stored energy in the body. Perilipin expression is limited to adipocytes and steroidogenic cells. There are currently two known isoforms, Perilipin A and B. Both of these proteins are encoded by a single-copy gene and are the result of differential splicing events.

**Species Reactivity:**

Mouse

**Host:**

Rabbit

**Immunogen:**

Synthetic peptide corresponding to the residues M(1) S M N K G P T L L D G D L P E Q(17) C of rat Perilipin A and B. This sequence is 82% conserved in humans.

**Specificity:**

Detects perilipin A and B from 3T3-L1 cell extracts. This antibody detects ~ 62 kDa and 46 kDa proteins representing perilipin A and B from 3T3-L1 cell extracts.

**Format:**

100 µL of purified polyclonal antibody in PBS containing 0.05% sodium azide.

**Storage:**

Store at -20°C. Avoid repeated freeze/thaw cycles.

**Applications and Suggested Dilutions:**

- Western blot: Use at a dilution of 1:1,000.

The optimal dilution for a specific application should be determined by the researcher.

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.