

#3467 Store at -20C

Perilipin-1 (K117) Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IF-IC	H M	Endogenous	62	Rabbit	#O60240	5346

Product Usage Information	Application Western Blotting Immunofluorescence (Immunocytochemistry)	Dilution 1:1000 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Perilipin-1 (K117) Antibody detects endogenous levels of total perilipin-1 protein.	
Species predicted to react based on 100% sequence homology:	Human, Pig	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence around Lys117 of human perilipin-1. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Triacylglycerol is stored in lipid droplets as a primary energy reserve. Perilipin is localized at the periphery of lipid droplets and serves as a protective coating against lipases (1-3). Evidence suggests that PKA regulates lipolysis by phosphorylating perilipin (1,2,4,5). Phosphorylation of perilipin results in the conformational change that exposes lipid droplets to endogenous lipases, such as hormone-sensitive lipases (2). Hence, perilipin plays a pivotal role in lipid storage (2,5).	
Background References	1. Greenberg, A.S. et al. (1991) <i>J Biol Chem</i> 266, 11341-6. 2. Brasaemle, D.L. (2007) <i>J Lipid Res</i> 48, 2547-59. 3. Ducharme, N.A. and Bickel, P.E. (2008) <i>Endocrinology</i> 149, 942-9. 4. Egan, J.J. et al. (1990) <i>J Biol Chem</i> 265, 18769-75. 5. Brasaemle, D.L. et al. (2009) <i>Mol Cell Biochem</i> 326, 15-21.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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