3470 st

Perilipin-1 (D418) Antibody



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

Applications: W, IHC-P, IF-IC	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit	UniProt ID: #O60240	Entrez-Gene Id: 5346
Product Usage Information	e	Application Western Blotting Immunohistochemis Immunofluorescence	• •	istry)		Dilution 1:1000 1:100 1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Perilipin-1 (D418) Antibody detects endogenous levels of total perilipin-1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence around Asp418 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 hormonesensitive 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 Reacti	ivity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.	, western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				in 5% w/v BSA, 1X
Applications Key		W: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)				cence
Cross-Reactivity Key		H: Human M: Mouse				
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