Adiponectin (C45B10) Rabbit mAb





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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 27	Source/Isotype: Rabbit IgG	UniProt ID: #Q15848	Entrez-Gene Id: 9370		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sensi	Sensitivity Adiponectin (C45B10) Rabbit mAb detects endogenous levels of total adiponectin protein monomer. It will not detect higher molecular weight forms of adiponectin.				tein monomer. It			
Source / Purifica	'urification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human adiponectin protein.					rresponding to		
Background		Adiponectin, also termed AdipoQ, Acrp30, apM1 and GBP28, is an adipokine expressed exclusively in brown and white adipocytes (1). It is secreted into the blood and exists in three major forms: a low molecular weight trimer, a medium molecular weight hexamer and a high molecular weight multimer (1). Adiponectin levels are decreased in obese and insulin-resistant mice and humans (2), suggesting that this adipokine is critical to maintain insulin sensitivity. Adiponectin stimulates the phosphorylation of AMPKα at Thr172 and activates AMPK in skeletal muscle (3). It also stimulates glucose uptake in myocytes (3). The block of AMPK activation by a dominant-negative AMPKα2 isoform inhibits the effect of adiponectin on glucose uptake, indicating that adiponectin stimulates glucose uptake and increases insulin sensitivity through its action on AMPK (3). Adiponectin mutants that are not able to form oligomers larger than trimers have no effect on the AMPK pathway (4). Mutations that render adiponectin unable to form high molecular weight multimers are associated with human diabetes (4), indicating the importance of multimerization for adiponectin activity.						
Background Ref	erences	1. Kadowaki, T. et al. (2006) <i>J. Clin. Invest.</i> 116, 1784-1792. 2. Hu, E. et al. (1996) <i>J. Biol. Chem.</i> 271, 10697-10703. 3. Yamauchi, T. et al. (2002) <i>Nat. Med.</i> 8, 1288-1295. 4. Waki, H. et al. (2003) <i>J. Biol. Chem.</i> 278, 40352-40363.						
Species Reactivi	ty	Species reactivity is de	etermined by testing	g in at least one approve	d application (e.g., v	western blot).		
Western Blot Bu	Vestern Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w. TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				5% w/v BSA, 1X			
Applications Key	,	W: Western Blotting						
Cross-Reactivity	Кеу	H: Human M: Mouse R: Rat						
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