1818

Phospho-Acetyl-CoA Carboxylase (Ser79) (D7D11) Rabbit mAb



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| Applications: W, W-S, IP, IHC-P, IF-IC | Reactivity: H M R | Sensitivity: Endogenous | MW (kDa): 280 | Source/Isotype: Rabbit IgG | UniProt ID: #Q13085, #O00763 | Entrez-Gene Id: 31, 32 | |
|--|--|--|-------------------------|--------------------------------------|--|----------------------------------|--|
| Product Usage Information | | Application Western Blotting Simple Western™ Immunoprecipitation Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry) | | | Dilution 1:1000 1:10 - 1:50 1:50 1:200 - 1:800 1:100 - 1:400 | | |
| 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. | | | | | |
| a | •.• •. | For a carrier free (BSA and azide free) version of this product see product #42801. | | | | | |
| Specificity/Sens | sitivity | Phospho-Acetyl-CoA Carboxylase (Ser79) (D7D11) Rabbit mAb recognizes endogenous levels of acetyl- CoA carboxylase protein only when phosphorylated at Ser79. | | | | | |
| Source / Purific | ation | Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser79 of human acetyl-CoA carboxylase protein. | | | | | |
| Background | | Acetyl-CoA carboxylase (ACC) catalyzes the carboxylation of acetyl-CoA to malonyl-CoA (1). It is the key enzyme in the biosynthesis and oxidation of fatty acids (1). In rodents, the 265 kDa ACC1 (ACC α) form is primarily expressed in lipogenic tissues, while 280 kDa ACC2 (ACC β) is the main isoform in oxidative tissues (1,2). However, in humans, ACC2 is the predominant isoform in both lipogenic and oxidative tissues (1,2). Phosphorylation by AMPK at Ser79 or by PKA at Ser1200 inhibits the enzymatic activity of ACC (3). ACC is a potential target of anti-obesity drugs (4,5). | | | | | |
| Background Re | tground References 1. Castle, J.C. et al. (2009) <i>PLoS One</i> 4, e4369. 2. Kreuz, S. et al. (2009) <i>Diabetes Metab Res Rev</i> 25, 577-86. 3. Ha, J. et al. (1994) <i>J Biol Chem</i> 269, 22162-8. 4. Abu-Elheiga, L. et al. (2001) <i>Science</i> 291, 2613-6. 5. Levert, K.L. et al. (2002) <i>J Biol Chem</i> 277, 16347-50. | | | | | | |
| Species Reactiv | ity | Species reactivity is det | termined by testing | in at least one appro | ved application (e.g., w | vestern blot). | |
| Western Blot B | uffer | 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 Ke | ey. | W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) | | | | | |
| Cross-Reactivit | у Кеу | H: Human M: Mouse R: Rat | | | | | |
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