

**Anti-phospho-Acetyl CoA Carboxylase (Ser79)**

(rabbit polyclonal IgG)

Catalog # 07-303

Lot # 27559

**Immunogen:** KLH conjugated synthetic peptide (C-HM RSSM[pS]GLHLVK) corresponding to amino acid 73-85 of rat Acetyl CoA Carboxylase.

**Specificity:** Recognizes Acetyl CoA Carboxylase phosphorylated at Serine 79, Mr 257kDa.

**Species Cross-reactivity:** Mouse, rat, human, and rabbit.

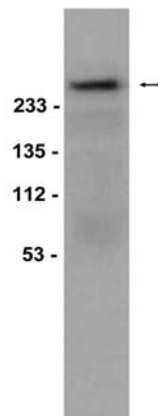
**Formulation:** 200µg of protein A purified IgG in 200µl of 0.1M Tris-glycine, pH 7.4, 0.15M NaCl, 0.05% sodium azide before the addition of glycerol to 30%. Liquid at -20°C.

**Storage and Stability:** Stable for 2 years at -20°C from date of shipment. For maximum recovery of product, centrifuge the vial prior to removing the cap.

**FOR RESEARCH USE ONLY  
NOT FOR USE IN HUMANS**

**Quality Control Testing**

**Immunoblot Analysis:** 0.5-2µg/ml of this lot detected phosphorylated Acetyl CoA Carboxylase in RIPA lysates from mouse heart cytosol. Pretreating the blot with lambda phosphatase abolished antibody binding. Pretreating the antibody with the phospho-peptide immunogen also blocked antibody binding.



**Immunoblot Analysis**

Representative blot from a previous lot. Mouse heart cytosol cell lysate was resolved by electrophoresis, transferred to nitrocellulose and probed with anti-phospho-Acetyl CoA Carboxylase (Ser79), (2µg/ml). Proteins were visualized using a goat anti-rabbit secondary antibody conjugated to HRP and a chemiluminescence detection system. Arrow indicates Acetyl CoA Carboxylase (~257kDa).

**General References:**

1. Kemp, B.E., *et al.*, Trends Biochem Sci. **24**: 22-25, 1999.
2. Chen, Z.P., *et al.*, Am. J. Physiol. Endocrinol. Metab. **279**: E1202-E1206, 2000.

### Immunoblot Protocol

1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) on a cell lysate sample (cell lysis buffer: 50mM Tris-HCl, pH 7.4; 1% NP-40; 0.25% sodium deoxycholate; 150mM NaCl; 1mM EDTA; 1mM PMSF; 1 $\mu$ g/ml each aprotinin, leupeptin, pepstatin; 1mM Na<sub>3</sub>VO<sub>4</sub>; 1mM NaF) and transfer the proteins to nitrocellulose. Wash the blotted nitrocellulose twice with water.
2. Block the blotted nitrocellulose in freshly prepared TBS containing 5% nonfat dry milk (Catalog # 20-200), (TBS-MLK) for 2 hours at room temperature with constant agitation.
3. Incubate the nitrocellulose with **0.5-2 $\mu$ g/ml of anti-phospho-Acetyl CoA Carboxylase (Ser79)** diluted in freshly prepared TBS-MLK containing 0.05% Tween-20, overnight at 4°C.
4. Wash the nitrocellulose three times with water.
5. Incubate the nitrocellulose in the secondary reagent of choice (a goat anti-rabbit HRP conjugated IgG, Catalog # 12-348, 1:5000 dilution was used) in TBS-MLK containing 0.05% Tween-20, for 1.5 hours at room temperature with agitation.
6. Rinse the nitrocellulose with water twice
7. Wash the nitrocellulose in TBS-0.05% Tween 20 for 3-5 minutes.
8. Wash the nitrocellulose with several changes of water for 1-2 hours.
9. Use detection method of choice (enhanced chemiluminescence was used).