# CAP (m): 293T Lysate: sc-118986



The Power to Question

#### **BACKGROUND**

c-Cbl associated protein (CAP), also designated ponsin and SH3P12, interacts with c-Cbl and facilitates the tyrosine phosphorylation of c-Cbl in response to Insulin. CAP contains three adjacent Src homology-3 (SH3) domains in the carboxy terminus. It interacts with the focal adhesion kinase p125FAK and colocalizes with Actin stress fibers. CAP is expressed in 3T3-L1 adipocytes, but not in 3T3-L1 or NIH/3T3 fibroblasts. Expression of the CAP gene is stimulated by thiazolidinediones (TZDs) through activation of PPARy. In addition to its interaction with c-Cbl, CAP interacts with Sos through the same SH3 domain, and may facilitate protein-protein associations involved in cell structural changes.

## **REFERENCES**

- Ribon, V., et al. 1998. A novel, multifunctional c-Cbl binding protein in Insulin receptor signaling in 2T3-L1 adipocytes. Mol. Cell Biol. 18: 872-879.
- Ribon, V., et al. 1998. A role for CAP, a novel, multifunctional Src homology 3 domain-containing protein in formation of Actin stress fibers and focal adhesions. J. Biol Chem. 273: 4073-4080.
- Ribon, V., et al. 1998. Thiazolidinediones and Insulin resistance: peroxisome proliferatioractivated receptor γ activation stimulates expression of the CAP gene. Proc. Natl. Acad. Sci. USA 95: 14751-14756.
- 4. Kurakin, A., et al.1998. Molecular recognition properties of the C-terminal SH3 domain of the Cbl associated protein, CAP. J. Pept. Res. 52: 331-337.
- Baumann, C., A., et al. 2000. Cloning and characterization of a functional peroxisome proliferator activator receptor-γ-responsive element in the promoter of the CAP gene. J. Biol. Chem. 275: 9131-9135.

# **CHROMOSOMAL LOCATION**

Genetic locus: Sorbs1 (mouse) mapping to 19 C3.

## **PRODUCT**

CAP (m): 293T Lysate represents a lysate of mouse CAP transfected 293T cells and is provided as 100  $\mu g$  protein in 200  $\mu l$  SDS-PAGE buffer.

### **APPLICATIONS**

CAP (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive CAP antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

CAP (G-3): sc-166903 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse CAP expression in CAP transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

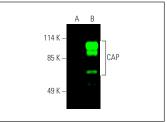
### **RECOMMENDED SUPPORT REAGENTS**

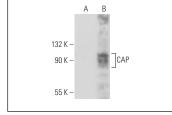
To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

#### **STORAGE**

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

### **DATA**





CAP (G-3): sc-166903. Near-infrared western blot analysis of CAP expression in non-transfected: sc-117752 (A) and mouse CAP transfected: sc-118986 (B) 293T whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-lgGk BP-CFL 680: sc-516180.

CAP (G-3): sc-166903. Western blot analysis of CAP expression in non-transfected: sc-117752 (**A**) and mouse CAP transfected: sc-118986 (**B**) 293T whole cell lysates.

## **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

### **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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