

CAP (C-19): sc-12295

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. CAP 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 PPAR γ . In addition to its interaction with c-Cbl, CAP interacts with Sos through the same SH3 domain. CAP may facilitate protein-protein associations involved in cell structural changes.

REFERENCES

- Ribon, V., Printen, J.A., Hoffman, N.G., Kay, B.K. and Saltiel, A.R. 1998. A novel, multifunctional c-Cbl binding protein in Insulin receptor signaling in 3T3-L1 adipocytes. *Mol. Cell. Biol.* 18: 872-879.
- Ribon, V., Herrera, R., Kay, B.K. and Saltiel, A.R. 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., Johnson, J.H., Camp, H.S. and Saltiel, A.R. 1998. Thiazolidinediones and Insulin resistance: peroxisome proliferator activated receptor γ activation stimulates expression of the CAP gene. *Proc. Natl. Acad. Sci. USA* 95: 14751-14756.
- Kurakin, A., Hoffman, N.G. and Kay, B.K. 1998. Molecular recognition properties of the C-terminal Sh3 domain of the Cbl associated protein, CAP. *J. Pept. Res.* 52: 331-337.
- Baumann, C., Chokshi, N., Saltiel, A.R. and Ribon, V. 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 (human) mapping to 10q24.1.

SOURCE

CAP (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CAP (c-Cbl associated protein) of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-12295 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

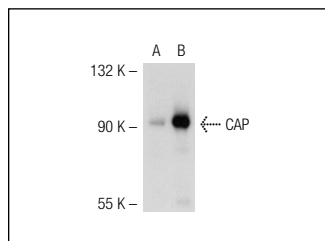
CAP (C-19) is recommended for detection of CAP of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

CAP (C-19) is also recommended for detection of CAP (also designated ponsin or SH3P12) in additional species, including equine, canine and porcine.

Suitable for use as control antibody for CAP siRNA (h): sc-40339, CAP siRNA (m): sc-40340, CAP shRNA Plasmid (h): sc-40339-SH, CAP shRNA Plasmid (m): sc-40340-SH, CAP shRNA (h) Lentiviral Particles: sc-40339-V and CAP shRNA (m) Lentiviral Particles: sc-40340-V.

Positive Controls: CAP (m): 293T Lysate: sc-118986.

DATA



CAP (C-19): sc-12295. Western blot analysis of CAP expression in non-transfected: sc-117752 (A) and mouse CAP transfected: sc-118986 (B) 293T whole cell lysates.

STORAGE

Store at 4 $^{\circ}$ C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **CAP (G-3): sc-166903**, our highly recommended monoclonal alternative to CAP (C-19).