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Sin (m): 293T Lysate: sc-123554

BACKGROUND

A protein designated p130 Cas (for Crk-associated substrate), represents one of several known substrates for v-Crk encoded p47. p130 Cas (also designated breast cancer anti-estrogen resistance protein 1 or Cas scaffolding protein family member 1), exhibits a high level of tyrosine phosphorylation and is tightly associated with v-Crk, suggesting a role in v-Crk-mediated cell signaling. p130 Cas is a novel SH3-containing signaling molecule with a cluster of multiple putative SH2-binding motifs for v-Crk. Two p130 Cas related proteins, designated Sin (Src interacting or signal integrating protein, also designated Cas3 or HEFS) and Cas-L (human enhancer of filamentation 1, HEF1 or Cas3), have also been identified. Sin contains SH2/SH3 domains and has been shown to activate Src. Cas-L contains an SH3 domain and has been shown to be a docking protein that serves as a substrate for phosphorylation by several oncogenic tyrosine kinases.

REFERENCES

1. Kanner, S.B., Reynolds, A.B., Wang, H.C., Vines, R.R. and Parsons, J.T. 1991. The SH2 and SH3 domains of pp60 Src direct stable association with tyrosine phosphorylated proteins p130 and p110. *EMBO J.* 10: 1689-1698.
2. Matusda, M., Mayer, B.J. and Hanafusa, H. 1991. Identification of domain of the v-Crk oncogene product sufficient for association with phosphotyrosine-containing proteins. *Mol. Cell. Biol.* 11: 1607-1613.
3. Matsuda, M., Tanaka, S., Nagata, S., Kojima, A., Kurata, T. and Shibuya, M. 1992. Two species of human Crk cDNA encode proteins with distinct biological activities. *Mol. Cell. Biol.* 12: 3482-3489.
4. Birge, R.B., Fajardo, J.E., Mayer, B.J. and Hanafusa, H. 1992. Tyrosine-phosphorylated epidermal growth factor receptor and cellular p130 provide high affinity binding substrates to analyze Crk-phosphotyrosine-dependent interactions *in vitro*. *J. Biol. Chem.* 267: 10588-10595.
5. Sakai, R., Iwamatsu, A., Hirano, N., Ogawa, S., Tanaka, T., Mano, H., Yazaki, Y. and Hirai, H. 1994. A novel signaling molecule, p130, forms stable complexes *in vivo* with v-Crk and v-Src in a tyrosine phosphorylation-dependent manner. *EMBO J.* 13: 3748-3756.
6. Alexandropoulos, K. and Baltimore, D. 1996. Coordinate activation of c-Src by SH3- and SH2-binding sites on a novel p130Cas-related protein, Sin. *Genes Dev.* 10: 1341-1355.
7. Law, S.F., Estojak, J., Wang, B., Mysliwiec, T., Kruh, G. and Golemis, E.A. 1996. Human enhancer of filamentation 1, a novel p130Cas-like docking protein, associates with focal adhesion kinase and induces pseudohyphal growth in *Saccharomyces cerevisiae*. *Mol. Cell. Biol.* 16: 3327-3337.
8. Ishino, M., Ohba, T., Inazawa, J., Sasaki, H., Ariyama, Y. and Sasaki, T. 1997. Identification of an Efs isoform that lacks the SH3 domain and chromosomal mapping of human Efs. *Oncogene* 15: 1741-1745.

CHROMOSOMAL LOCATION

Genetic locus: Efs (mouse) mapping to 14 C3.

RESEARCH USE

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

PRODUCT

Sin (m): 293T Lysate represents a lysate of mouse Sin transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Sin (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Sin antibodies. Recommended use: 10-20 µl per lane.

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

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.

PROTOCOLS

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