
anti-Paxillin

Cat #: HM1279
Mouse monoclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Paxillin is a focal adhesion protein and a substrate for several tyrosine kinases such as src, FAK, and p210BRC/ABL. The tyrosine phosphorylation of paxillin is affected by conditions that change cell-cell adhesion. Paxillin associates tightly with FAK and Crk through its SH2 domain. This interaction is independent of the extracellular matrix. Although paxillin was initially discovered in fibroblasts, its phosphorylation may also be important during neurite extension during differentiation.

SPECIFICITY

This antibody specifically recognizes Paxillin of human and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunostaining.

IMMUNOGEN

Full-length recombinant human Paxillin.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

1. Li, X. et al. 1997. Paxillin is tyrosine-phosphorylated by and preferentially associates with the calcium-dependent tyrosine kinase in rat liver epithelial cells. *J. Biol. Chem.* 272: 14341-14348.
2. Yamaguchi, R., et al. 1997. Mitosis specific serine phosphorylation and downregulation of one of the focal adhesion proteins, paxillin. *Oncogene* 15: 1753-1761.
3. Leventhal, P.S., et al. 1996. Tyrosine phosphorylation and enhanced expression of paxillin during neuronal differentiation in vitro. *J. Biol. Chem.* 271: 5957-5960.
4. Brown, M.C., et al. 1996. Identification of LIM3 as the principal determinant of paxillin focal adhesion localization and characterization of a novel motif on paxillin directing vinculin and focal adhesion kinase binding. *J. Cell Biol.* 135: 1109-1123.
5. Bellis, S.L., et al. 1995. Characterization of tyrosine phosphorylation of paxillin in vitro by focal adhesion kinase. *J. Biol. Chem.* 270: 17437-17441.
6. Salgia, R., et al. 1995. Molecular cloning of human paxillin, a focal adhesion protein phosphorylated by P210BCR/ABL. *J. Biol. Chem.* 270: 5039-5047.
7. Liu, S., Slepak, M. and Ginsberg, M.H. (2001) Binding of Paxillin to the alpha 9 Integrin Cytoplasmic Domain Inhibits Cell Spreading. *J. Biol. Chem.* 276, 37086-37092.

8. Huang, C., Borchers, C.H., Schaller, M.D. and Jacobson, K. (2004) Phosphorylation of paxillin by p38MAPK is involved in the neurite extension of PC-12 cells. *J. Cell Biol.* 164, 593-602.
9. Azuma, K., Tanaka, M., Uekita, T., Inoue, S., Yokota, J., Ouchi, Y. and Sakai, R. (2005) Tyrosine phosphorylation of paxillin affects the metastatic potential of human osteosarcoma. *Oncogene* 24, 4754-4764.

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