

Paxillin

Cat. # PM1071

Host Mouse Monoclonal IgG1

Size 100 μ l

Background:

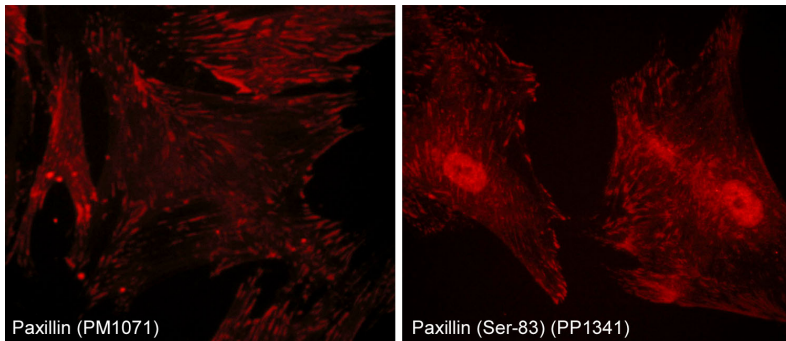
Paxillin, a focal adhesion protein, is involved in focal adhesion formation during cell adhesion and migration. Paxillin contains LD motifs, LIM domains, and SH3-/SH2-binding domains that participate in a variety of protein-protein interactions with kinases, GTPase-activating proteins, and cytoskeletal proteins. Phosphorylation of paxillin occurs at both tyrosine and serine sites. Serine phosphorylation of paxillin occurs in response to growth-factor activation and fibronectins. Both JNK1 and cdc2 kinases can phosphorylate serine 178 in paxillin. The mutant form of paxillin (S178A) decreases the migration of keratocytes and epithelial cells. Thus, phosphorylation paxillin at serine 178 may be important during cell migration.

References

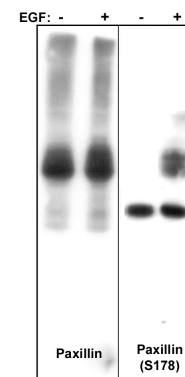
Huang, C. et al. (2003) Nature 424:219-223.

Huang, C. et al. (2004) Cell Cycle 3(1):4-6.

Woodrow, M.A. (2003) Exp. Cell. Res. 287(2):325-338.



Immunocytochemical labeling of Ser-83 phosphorylated paxillin in rabbit spleen fibroblasts. The cells were labeled with mouse monoclonal Paxillin (left) and rabbit polyclonal Paxillin (Ser-83, right) antibodies, then detected using appropriate secondary antibodies conjugated to Cy3.



Western blot analysis of A431 cells (20 μ g/lane) serum starved overnight and treated with EGF (100 ng/ml) for 5 min. The blot was probed with anti-Paxillin or anti-Paxillin (Ser-178).

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Host Mouse Monoclonal IgG1

Size 100 µl

Immunogen:

Clone (M107) was generated from full-length recombinant human paxillin.

Buffer and Storage:

Mouse monoclonal antibody purified with protein A chromatography is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Do not aliquot. Stable for 1 year.

Applications:

WB 1:1000 ICC 1:100

ELISA 1:2000

IP 1:100

End user should determine optimal dilution for their particular applications and experiments.
Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1hour at room temperature.

Specificity:

This antibody detects a 68kDa* protein corresponding to the molecular mass of paxillin on SDS-PAGE immunoblots of A431 cells. Similar results were seen in various cells and tissues from rat, mouse, and chicken origin.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

Related Products:

PM1021 Paxillin (Tyr-31), phospho-specific Mouse Monoclonal

PP1051 Paxillin (Ser-178), phospho-specific Rabbit Polyclonal

AL9201 A431 EGF Ctrl Lysate

AL9301 A431 + EGF (5min) Lysate

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