

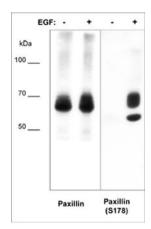
Paxillin (Ser-178), phospho-specific

Rabbit Polyclonal

Cat. # PP1051 **Size** 100 µl

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.



Western blot analysis of A431 cells (20 µg/lane) serum starved overnight and treated with EGF (100 ng/ml) for 5 min. The blot was probed with anti-Paxillin mouse monoclonal (PM1071) or anti-Paxillin (Ser-178) rabbit polyclonal (PP1051).

Background References

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

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

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

Applications	Species Reactivity	Specificity

Hu, Rt, Ms

WB	1:500
ELISA	1:2000
IHC	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 1 hour at room temperature.

This antibody detects a 68kDa* protein corresponding to the molecular mass of phosphorylated paxillin on SDS-PAGE immunoblots of EGF treated A431 cells, but not in A431 control cells. Similar results were seen in calyculin A treated human A431 and aortic endothelial cells.

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

Immunogen Uniprot ID: P49023

Phospho-Paxillin (Ser-178) synthetic peptide (coupled to KLH) corresponding to amino acid residues around serine 178 of human paxillin. This human sequence is highly conserved in rat and mouse paxillin.

Buffer and Storage

Rabbit polyclonal, affinity-purified antibody is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

Related Products

PM1071 Paxillin Mouse Monoclonal

PM1021 Paxillin (Tyr-31), phospho-specific Mouse Monoclonal PK6070 Paxillin Phospho-Regulation Antibody Sampler Kit

PX1055 phospho-Paxillin (Ser-178) Blocking Peptide

Product References

Chen, M.J. et al. (2020) Am J Can Res. 10(1):275.

IHC, WB mutant S178A

Wu, D. W. et al. (2014) Oncogene 33(35): 4385.

WB: CCM3 cells

Wei, W. et al. (2013) Pancreatology 13(4):384. WB: pancreatic PANC1, Capan-2 and HT1080 cells

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