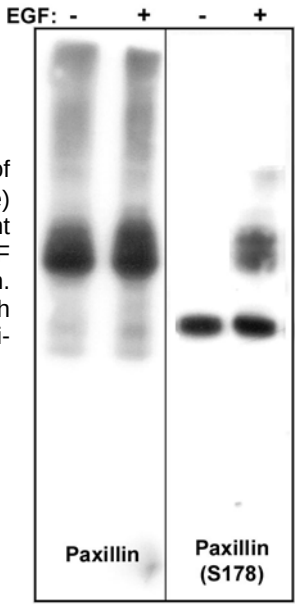
Anti-Paxillin (Ser-178), phospho-specific

Cat. #	**PP1051**
Host	**Rabbit Polyclonal**
Size	**100µl**

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 or anti-Paxillin (Ser-178).

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.

Immunogen:
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. Do not aliquot. Stable for 1 year.

Applications:

Western blotting	1:500 dilution†
ELISA	1:2000 dilution

End user should determine optimal dilution for their particular applications and experiments.
†Membrane was 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 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.

Related Products:
PM1021 Paxillin (Tyr-31), phospho-specific Rabbit Polyclonal
PM1071 Paxillin Mouse Monoclonal
PX1055 phospho-Paxillin (Ser-178) Peptide

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