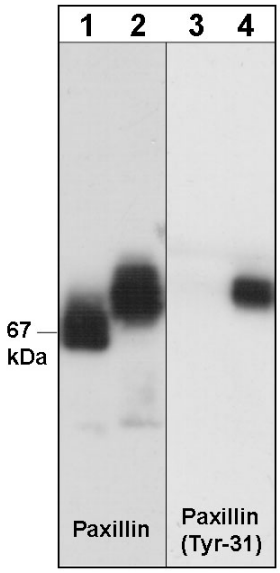
Anti-Paxillin (Tyr-31), phospho-specific

Cat. #	**PM1021**
Host	**Mouse Monoclonal IgG1**
Size	**100µl**

Background:
Paxillin is involved in focal adhesion formation during cell adhesion and migration. Paxillin contains LD motifs, LIM domains, and an SH3- and SH2-binding domain 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. Tyrosine phosphorylation of paxillin occurs in response to growth factors, neuropeptides, and integrins. The major sites of tyrosine phosphorylation include Tyr-31 and Tyr-118. Both of these sites may be involved in Crk binding to paxillin during integrin-mediated cell adhesion. These sites may provide docking motifs for recruitment of other signaling molecules to focal adhesions.

Western blot analysis of A431 cells (30 µg/lane) serum starved overnight (lane 1 & 3) or treated with pervanadate (1 mMl) for 30 min (lanes 2 & 4). The blot was probed with anti-Paxillin (PM1071) or anti-phospho-Paxillin (Tyr-31) (PM1021).



References:
Salgia, R. et al. (1995) J Biol Chem. 270(49):29145.
Schaller, M.D & Schaefer, E.M. (2001) Biochem J. 360:57.

Immunogen:
Clone M102 was generated from phospho-Paxillin (Tyr-31) synthetic peptide (coupled to KLH) corresponding to amino acid residues around tyrosine 31 of human paxillin. This human sequence is highly conserved in rat and mouse 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:

Western blotting	1:1000 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 72kDa* protein corresponding to the molecular mass of phosphorylated paxillin on SDS-PAGE immunoblots of pervanadate treated A431 cells, but not in A431 control 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:
PP1051 Paxillin (Ser-178), phospho-specific Rabbit Polyclonal
PM1071 Paxillin Mouse Monoclonal
AL9401 A431 Pervanadate Control Lysate
AL9501 A431 + Pervanadate Lysate

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