

# phospho-Paxillin (Ser-83) Peptide

Cat. # PX1345

Size 50 µg

## **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 ERK and p38MAPK kinases phosphorylate serine 83 *in vitro*. HGF stimulation of murine epithelial cells leads to ERK-mediated phosphorylation of Ser-83, which is required for HGF-induced cell spreading and migration. In addition, Ser-83 is phosphorylated in response to NGF in PC12 cells, and this phosphorylation may be involved in neurite extension.

## **References**

Huang, C. et al. (2004) J Cell Biol. 164(4):593-602.

Ishibe, S. et al. (2004) Mol. Cell 16 :257-267.

## **Peptide Sequence:**

Phospho-Paxillin (Ser-83) synthetic peptide corresponds to amino acid residues around serine 83 of mouse paxillin. This sequence is highly conserved in rat and human paxillin and is also found in all isoforms ( $\alpha$ ,  $\beta$ ,  $\gamma$ ) of paxillin.

## **Buffer and Storage:**

Blocking Peptide is supplied in 50µl phosphate-buffered saline and 0.05% sodium azide.

Store at -20°C. Stable for 1 year.

## **Applications:**

Blocking 1:1,000

ELISA 50 ng/well

End user should determine optimal concentration dependent on the concentration of the antibody.  
Recommended for blocking antibody reactivity in Western blot and immunocytochemistry.  
ELISA established in 96-well Nunc immunoplates where peptide was bound to plates for 2 hrs in 0.1 M sodium carbonate buffer, pH 8.5.

## **Specificity:**

The peptide is specifically recognized by anti-Paxillin (Ser-83) phospho-specific antibody (PP1341) in ELISA, and has been shown to block the reactivity of PP1341 during Western blot. In addition, the peptide is recommended for use in blocking PP1341 reactivity in immunocytochemistry.

## **Related Products:**

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

PM1071 Paxillin Mouse Monoclonal

PP1161 Paxillin (C-terminal) Rabbit Polyclonal

PP1341 Paxillin (Ser-83), phospho-specific Rabbit Polyclonal

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

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