

phospho-Paxillin (Ser-178) Blocking Peptide

Cat. # **PX1055**

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 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.

Peptide Sequence:

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

Antibody Blocking 1 µg/ml¹

ELISA 10-100 ng/well²

End user should determine optimal concentration dependent on the concentration of the antibody.

¹Recommended for blocking antibody reactivity in Western blot and immunocytochemistry.

²Established 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-178) phospho-specific antibody (PP1051) in ELISA, and has been shown to block the reactivity of PP1051 during Western blot. In addition, the peptide is recommended for use in blocking PP1051 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

PX1345 phospho-Paxillin (Ser-83) peptide

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