

#2541 Store at -20°C

Phospho-Paxillin (Tyr118) Antibody


Cell Signaling
TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk Pg	Endogenous	68	Rabbit	#P49023	5829

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Phospho-Paxillin (Tyr118) Antibody detects endogenous levels of paxillin only when phosphorylated at tyrosine 118. The antibody does not cross-react with other tyrosine phosphorylated proteins.	
Species predicted to react based on 100% sequence homology:	Zebrafish	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr118 of human paxillin. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Paxillin is a multidomain protein that localizes primarily to focal adhesion sites in the extracellular matrix (1). Paxillin is one of the key components of integrin signaling, and tyrosine phosphorylation of paxillin is required for integrin-mediated cytoskeletal reorganization (2). Paxillin is phosphorylated by another focal adhesion component, focal adhesion kinase (FAK), at Tyr118 (3,4). Phospho-paxillin (Tyr118) may provide a docking site for recruitment of other signaling molecules to focal adhesions. It has been shown that the SH2 domain of Crk binds to the phosphorylated Tyr118 of paxillin (5).	
Background References	1. Turner, C.E. (2000) <i>J Cell Sci</i> 113 Pt 23, 4139-40. 2. Burridge, K. et al. (1992) <i>J Cell Biol</i> 119, 893-903. 3. Bellis, S.L. et al. (1995) <i>J Biol Chem</i> 270, 17437-41. 4. Bellis, S.L. et al. (1997) <i>Biochem J</i> 325 (Pt 2), 375-81. 5. Schaller, M.D. and Parsons, J.T. (1995) <i>Mol Cell Biol</i> 15, 2635-45.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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