

Store at -20C #2542	Paxillin Antibody	
	Orders: 877-616-CELL (2355) orders@cellsignal.com	
	Support: 877-678-TECH (8324)	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk B 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

Paxillin Antibody detects endogenous levels of total paxillin protein. The antibody does not cross-react with related proteins.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy-terminus 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) *J Cell Sci* 113 Pt 23, 4139-40.
2. Burridge, K. et al. (1992) *J Cell Biol* 119, 893-903.
3. Bellis, S.L. et al. (1995) *J Biol Chem* 270, 17437-41.
4. Bellis, S.L. et al. (1997) *Biochem J* 325 (Pt 2), 375-81.
5. Schaller, M.D. and Parsons, J.T. (1995) *Mol Cell Biol* 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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey **B:** Bovine **Pg:** Pig

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