

**Paxillin (D9G12) Rabbit mAb**

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<b>Applications:</b> W, IP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 54, 62, 68	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P49023	<b>Entrez-Gene Id:</b> 5829
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**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation

**Dilution**

1:1000  
1:50

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

Paxillin (D9G12) Rabbit mAb recognizes endogenous levels of total paxillin protein. The antibody recognizes all isoforms of human paxillin.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys193 of human paxillin protein.

**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 **IP:** Immunoprecipitation

**Cross-Reactivity Key**

**H:** Human

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