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Phospho-Talin (Ser425) Antibody



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

Product Usage InformationApplication Western BlottingDilution 1:1000StorageSupplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Sto 20°C. Do not aliquot the antibody.Specificity/SensitivityPhospho-Talin (Ser425) Antibody detects endogenous levels of talin protein only when phosphorat Ser425.Source / PurificationPolyclonal antibodies are produced by immunizing animals with a synthetic peptide correspondersidues surrounding Ser425 of human talin protein. Antibodies are purified using protein A are peptide affinity chromatography.BackgroundFocal adhesions connect the cytoskeleton with the extracellular matrix (ECM), a complex struct secreted macromolecules that surrounds mammalian organs and tissues. Integrins clustered or extracellular side of focal adhesions signal from the ECM to intracellular protein complexes, what turn signal to the actin cytoskeleton to regulate the tension needed for cell motility. Internal sides also converge on focal adhesions to regulate the tension needed for cell motility. Internal sides also converge on focal adhesion, migration, proliferation, apoptosis, and gene expression, and impacts cellular processes such as development, wound healing, immune response, invasion, metastasis, and angiogenesis (reviewed in 1-3). Talin is a large, multidomain focal adhesion proteins. Talin is in the formation of focal adhesions and in linking focal adhesions to the actin cytoskeleton (4). Interaction between talin and integrins increases the affinity between integrin and both insolutions between talin and integrins increases the affinity between integrin and both insolutions between talin and integrins increases the affinity between integrin and both insolutions to the actin cytoskeleton (4).	
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soluble ECM proteins (5,6). Phosphorylation of talin at Ser425 was discovered using mass spectrometry. This site is a poter substrate of CDK5 (7).	on the nich in gnals cal nd otein that involved The ble and
1. Burridge, K. et al. (1988) Annu Rev Cell Biol 4, 487-525. 2. Calderwood, D.A. et al. (2000) J Biol Chem 275, 22607-10. 3. ffrench-Constant, C. and Colognato, H. (2004) Trends Cell Biol 14, 678-86. 4. Nayal, A. et al. (2004) Curr Opin Cell Biol 16, 94-8. 5. Tanentzapf, G. and Brown, N.H. (2006) Nat Cell Biol 8, 601-6. 6. Tadokoro, S. et al. (2003) Science 302, 103-6. 7. Ratnikov, B. et al. (2005) J Cell Sci 118, 4921-3.	
Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western b	lot).
Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v B TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.)CA 1V
Applications Key W: Western Blotting	3A, 1A
Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey	33A, TA

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