

#3553 Store at -20°C

Zyxin Antibody


Cell Signaling
TECHNOLOGY®

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

Applications: WB	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 78	Source: Rabbit	UniProt ID: #Q15942	Entrez-Gene Id: 7791
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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	Zyxin Antibody recognizes endogenous levels of total zyxin protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues in the central region of human zyxin. Antibodies are purified using protein A and peptide affinity chromatography.	
Background	<p>The zyxin family of proteins includes LIMD1, ajuba, trip6 and zyxin, each of which contains three LIM domains at the carboxy-terminus. Zyxin family members associate with the actin cytoskeleton and are components of both the cell-cell junction adhesive complex and the integrin-mediated adhesive complex. They shuttle in and out of the nucleus where they may function in transcriptional activation (1).</p> <p>Zyxin is involved in the regulation of mechanical force-induced actin polymerization at focal adhesions (2), and in regulation of adhesion and migration, possibly through recruitment of Ena/VASP proteins to focal adhesions (3). Zyxin interacts with and may regulate the function of the tumor suppressor myopodin, which inhibits tumor growth and metastasis (4).</p>	
Background References	<ol style="list-style-type: none"> 1. Wang, Y. and Gilmore, T.D. (2003) <i>Biochim Biophys Acta</i> 1593, 115-20. 2. Hirata, H. et al. (2008) <i>J Cell Sci</i> 121, 2795-804. 3. Hoffman, L.M. et al. (2006) <i>J Cell Biol</i> 172, 771-82. 4. Yu, Y.P. and Luo, J.H. (2006) <i>Cancer Res</i> 66, 7414-9. 	

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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