#3553 Store at –20°C

Zyxin Antibody

☑ 100 µl
(10 western blots)

Cell Signaling TECHNOLOGY®

Orders ■ 877-616-CELL (2355)
orders@cellsignal.com
Support ■ 877-678-TECH (8324)
info@cellsignal.com
Web ■ www.cellsignal.com

rev. 11/08/11

Entrez-Gene ID #7791
Swiss-Prot Acc. #Q15942

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, Mk	78 kDa	Rabbit**

Background: 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). Zyxin is involved in the regulation of mechanical force-induced actin polymerization at focal adhesions (2), and in the regulation of adhesion and migration, possibly through the 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).

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.

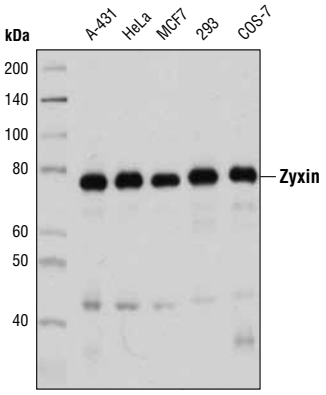
Background References:

(1) Wang, Y. and Gilmore, T.D. (2003) *Biochim Biophys Acta* 1593, 115–20.

(2) Hirata, H. et al. (2008) *J Cell Sci* 121, 2795–804.

(3) Hoffman, L.M. et al. (2006) *J Cell Biol* 172, 771–82.

(4) Yu, Y.P. and Luo, J.H. (2006) *Cancer Res* 66, 7414–9.



Western blot analysis of extracts from various cell lines using Zyxin Antibody.

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.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:
Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide
Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **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 **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.