

# Zyxin (H-200): sc-15338

## BACKGROUND

Zyxin is a low abundance phosphoprotein localized to focal adhesion plaques and is thought to perform regulatory functions at these regions. The protein contains a number of proline-rich sequences as well as three LIM domains, zinc finger domains involved in protein binding. Zyxin interacts with several other proteins at cell adhesion sites, including members of the CRP (cysteine-rich protein) LIM domain containing protein family. The proline-rich domain of Zyxin associates with an SH3 domain of p95 Vav, but not with similar SH3 domains containing proteins such as GRB2 or PLC  $\gamma$ . Zyxin has also been shown to interact with the focal adhesion protein VASP and may assist in the targeting of VASP to focal adhesions, microfilaments and membrane regions of high dynamic activity. Zyxin may contribute to the organization of the Actin cytoskeleton in mammalian cells.

## CHROMOSOMAL LOCATION

Genetic locus: ZYX (human) mapping to 7q34; Zyx (mouse) mapping to 6 B2.1.

## SOURCE

Zyxin (H-200) is a rabbit polyclonal antibody raised against amino acids 231-430 mapping within an internal region of Zyxin of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Zyxin (H-200) is recommended for detection of Zyxin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Zyxin (H-200) is also recommended for detection of Zyxin in additional species, including porcine.

Suitable for use as control antibody for Zyxin siRNA (h): sc-36370, Zyxin siRNA (m): sc-36373, Zyxin shRNA Plasmid (h): sc-36370-SH, Zyxin shRNA Plasmid (m): sc-36373-SH, Zyxin shRNA (h) Lentiviral Particles: sc-36370-V and Zyxin shRNA (m) Lentiviral Particles: sc-36373-V.

Molecular Weight of Zyxin: 82 kDa.

Positive Controls: CCD-1064Sk cell lysate: sc-2263, HeLa whole cell lysate: sc-2200 or Hs68 cell lysate: sc-2230.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

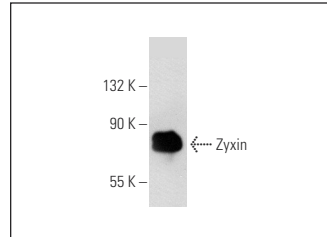
## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

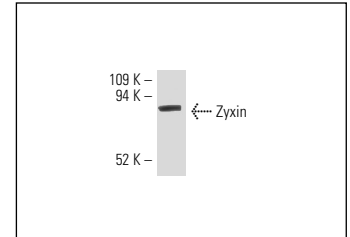
## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

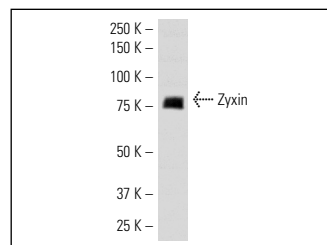
## DATA



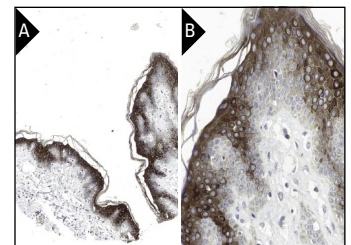
Zyxin (H-200): sc-15338. Western blot analysis of Zyxin expression in HeLa whole cell lysate.



Zyxin (H-200): sc-15338. Western blot analysis of Zyxin expression in mouse PBL whole cell lysate.



Zyxin (H-200): sc-15338. Western blot analysis of Zyxin expression in CCD-1064Sk whole cell lysate.



Zyxin (H-200): sc-15338. Immunoperoxidase staining of formalin fixed, paraffin-embedded human skin tissue showing cytoplasmic and membrane staining of epidermal cells at low (A) and high (B) magnification. Kindly provided by The Swedish Human Protein Atlas (HPA) program.

## SELECT PRODUCT CITATIONS

- Conley, B.A. 2004. Endoglin controls cell migration and composition of focal adhesions: function of the cytosolic domain. *J. Biol. Chem.* 279: 27440-27449.
- Cerisano, V., et al. 2004. Molecular mechanisms of CD99-induced caspase-independent cell death and cell-cell adhesion in Ewing's sarcoma cells: Actin and Zyxin as key intracellular mediators. *Oncogene* 33: 5664-5674.
- Lassnig, C., et al. 2005. Development of a transgenic mouse model susceptible to human coronavirus 229E. *Proc. Natl. Acad. Sci. USA* 102: 8275-8280.
- Shen, Y., et al. 2015. Effect of surface chemistry on the integrin induced pathway in regulating vascular endothelial cells migration. *Colloids Surf. B, Biointerfaces* 126: 188-197.

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Try **Zyxin (2D1): sc-293448**, our highly recommended monoclonal alternative to Zyxin (H-200).