

## ZYX Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a full length recombinant ZYX.

Catalog # AT4654a

### Product Information

---

<b>Application</b>	WB, IHC, E
<b>Primary Accession</b>	<a href="#">Q15942</a>
<b>Other Accession</b>	<a href="#">BC008743</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG2a Kappa
<b>Clone Names</b>	2D1
<b>Calculated MW</b>	61277

### Additional Information

---

<b>Gene ID</b>	7791
<b>Other Names</b>	Zyxin, Zyxin-2, ZYX
<b>Target/Specificity</b>	ZYX (AAH08743, 1 a.a. ~ 572 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	ZYX Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

### Background

---

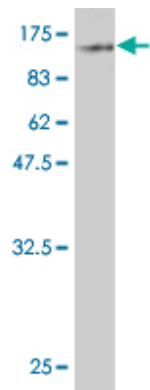
Focal adhesions are actin-rich structures that enable cells to adhere to the extracellular matrix and at which protein complexes involved in signal transduction assemble. Zyxin is a zinc-binding phosphoprotein that concentrates at focal adhesions and along the actin cytoskeleton. Zyxin has an N-terminal proline-rich domain and three LIM domains in its C-terminal half. The proline-rich domain may interact with SH3 domains of proteins involved in signal transduction pathways while the LIM domains are likely involved in protein-protein binding. Zyxin may function as a messenger in the signal transduction pathway that mediates adhesion-stimulated changes in gene expression and may modulate the cytoskeletal organization of actin bundles. Alternative splicing results in multiple transcript variants that encode the same isoform.

### References

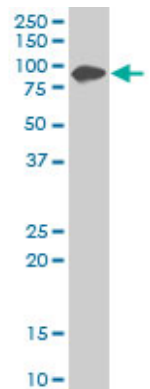
---

1.Zyxin is a TGF- $\beta$ /Smad3 target gene that regulates lung cancer cell motility via integrin  $\alpha$ 5 $\beta$ 1.Mise N, Savai R, Yu H, Schwarz J, Kaminski N, Eickelberg O.J Biol Chem. 2012 Jul 9.

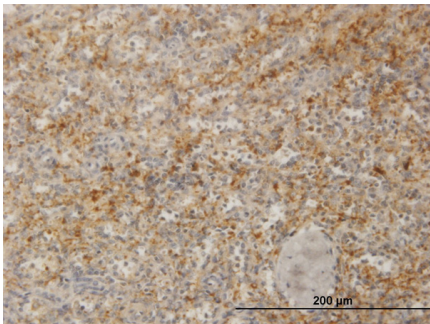
Images



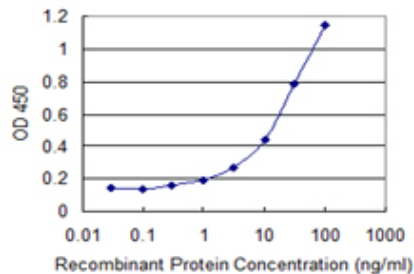
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (88.66 KDa) .



ZYX monoclonal antibody (M02), clone 2D1 Western Blot analysis of ZYX expression in NIH/3T3 ( (Cat # AT4654a )



Immunoperoxidase of monoclonal antibody to ZYX on formalin-fixed paraffin-embedded human spleen. [antibody concentration 1.5 ug/ml]



Detection limit for recombinant GST tagged ZYX is 0.3 ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.