

**ZYX Antibody (monoclonal) (M02)****Mouse monoclonal antibody raised against a full length recombinant ZYX.****Catalog # AT4654a****Specification**

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**ZYX Antibody (monoclonal) (M02) - Product Information**

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

**ZYX Antibody (monoclonal) (M02) - Additional Information****Gene ID** 7791**Other Names**

Zyxin, Zyxin-2, ZYX

**Target/Specificity**

ZYX (AAH08743, 1 a.a. ~ 572 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

IHC~~1:100~500

E~~N/A

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

ZYX Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

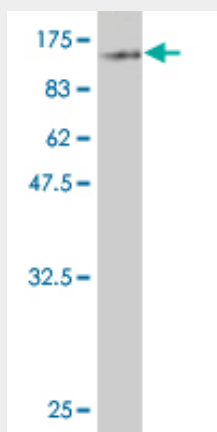
**ZYX Antibody (monoclonal) (M02) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

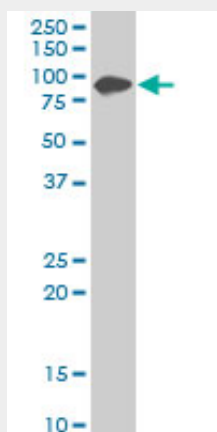
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

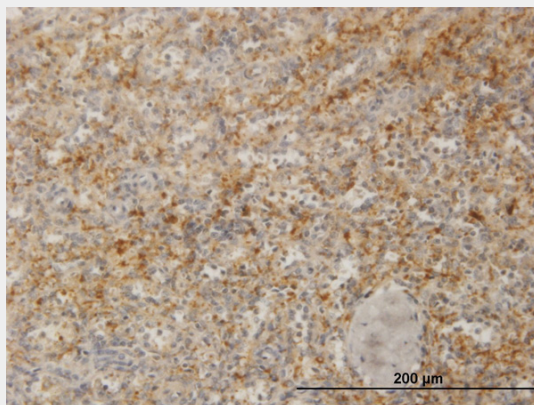
## ZYX Antibody (monoclonal) (M02) - Images



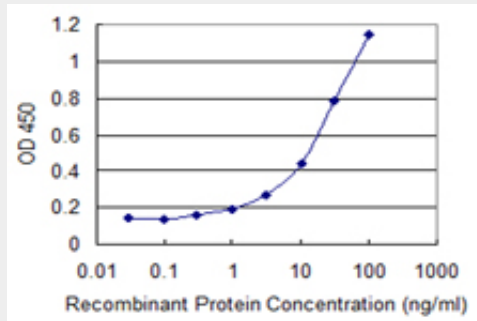
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (88.66 kDa) .



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.

### **ZYX Antibody (monoclonal) (M02) - 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.

### **ZYX Antibody (monoclonal) (M02) - 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.