

**ZYX Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a full length recombinant ZYX.

Catalog # AT4653a

**Specification**

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**ZYX Antibody (monoclonal) (M01) - Product Information**

Application	WB, IF, IP, E
Primary Accession	<a href="#">Q15942</a>
Other Accession	<a href="#">BC008743</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 kappa
Calculated MW	61277

**ZYX Antibody (monoclonal) (M01) - 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

IF~~1:50~200

IP~~N/A

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) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

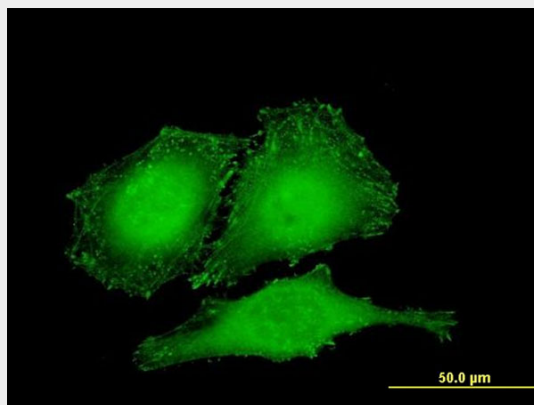
**ZYX Antibody (monoclonal) (M01) - Protocols**

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

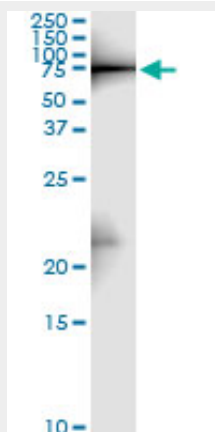
- [Western Blot](#)

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

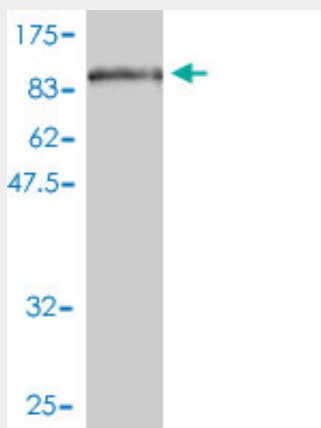
## ZYX Antibody (monoclonal) (M01) - Images



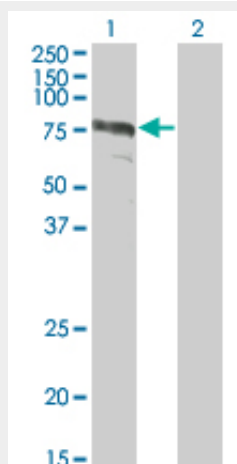
Immunofluorescence of monoclonal antibody to ZYX on HeLa cell . [antibody concentration 10 ug/ml]



Immunoprecipitation of ZYX transfected lysate using anti-ZYX monoclonal antibody and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with ZYX MaxPab rabbit polyclonal antibody.



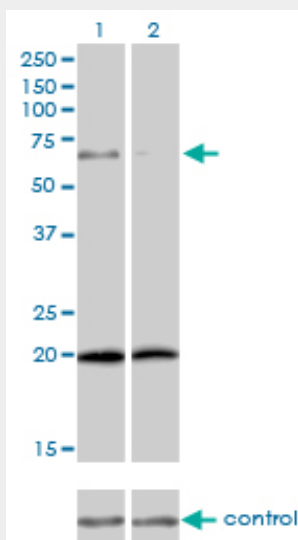
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (88.66 KDa) .



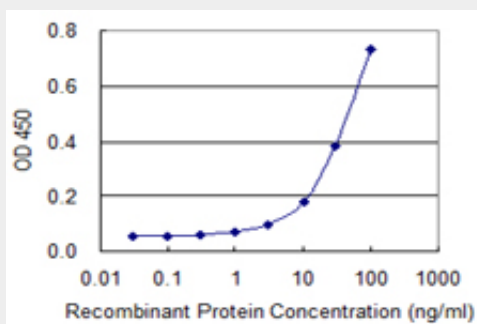
Western Blot analysis of ZYX expression in transfected 293T cell line by ZYX monoclonal antibody (M01), clone 2C10-4A7.

Lane 1: ZYX transfected lysate(61.3 KDa).

Lane 2: Non-transfected lysate.



Western blot analysis of ZYX over-expressed 293 cell line, cotransfected with ZYX Validated Chimera RNAi ( Cat # AT4653a )



Detection limit for recombinant GST tagged ZYX is 1 ng/ml as a capture antibody.

**ZYX Antibody (monoclonal) (M01) - 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) (M01) - References**

1. Mechanical forces facilitate actin polymerization at focal adhesions in a zyxin-dependent manner. Hirata H, Tatsumi H, Sokabe M. J Cell Sci. 2008 Sep 1;121(Pt 17):2795-804. Epub 2008 Aug 5.