10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ZYX Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant ZYX.
Catalog # AT4653a

Product Information

Application	WB, IF, IP, E
Primary Accession	Q15942
Other Accession	BC008743
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	2C10-4A7
Calculated MW	61277

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.

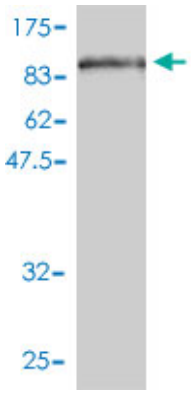
Background

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.

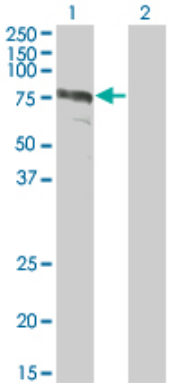
References

1.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.

Images

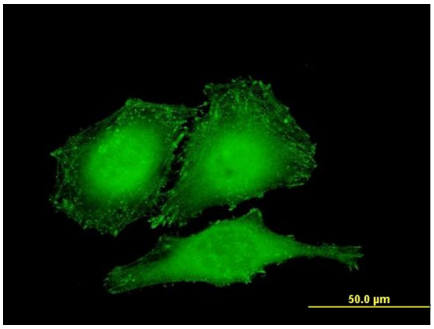


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (88.66 KDa) .

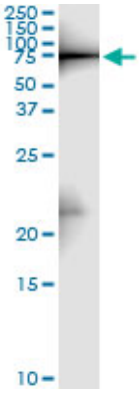


Western Blot analysis of ZYX expression in transfected 293T cell line by ZYX monoclonal antibody (M01), clone 2C10-4A7.

Lane 1: ZYX transfected lysate(61.3 KDa).
Lane 2: Non-transfected lysate.

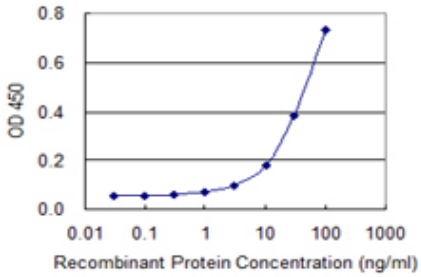


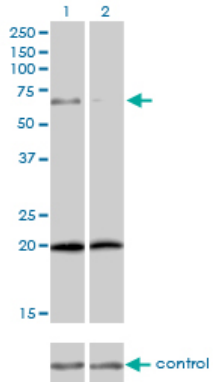
Immunofluorescence of monoclonal antibody to ZYX on HeLa cell . [antibody concentration 10 ug/ml]



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

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





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

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