

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. |

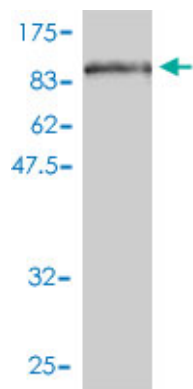
Background

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.

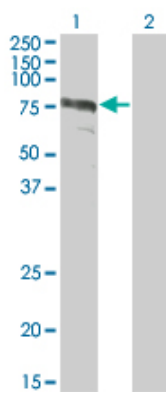
References

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

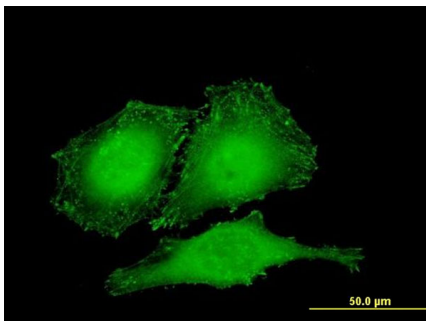


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (88.66 KDa) .

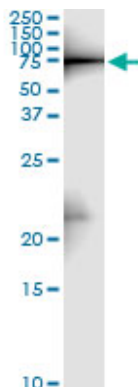


Western Blot analysis of ZYX expression in transfected 293T cell line by ZYX monoclonal antibody (M01), clone 2C10-4A7.

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

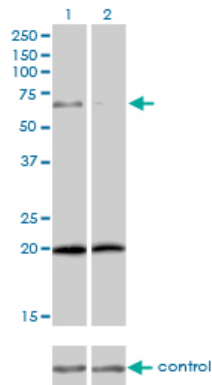
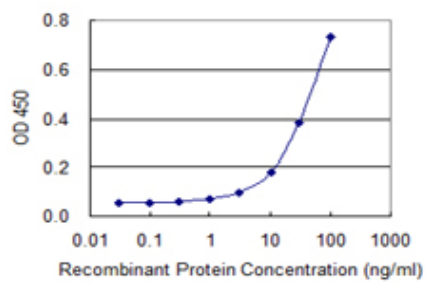


Immunofluorescence of monoclonal antibody to ZYX on HeLa cell . [antibody concentration 10 ug/ml]



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'.