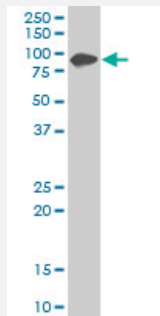


ZYX monoclonal antibody (M02), clone 2D1

Catalog # H00007791-M02

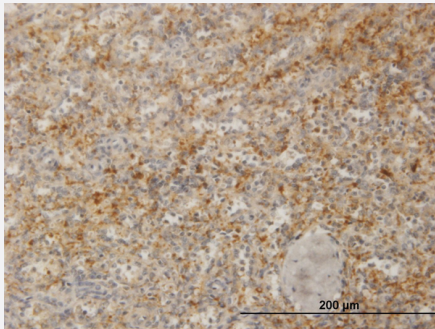
Size 100 ug

Applications



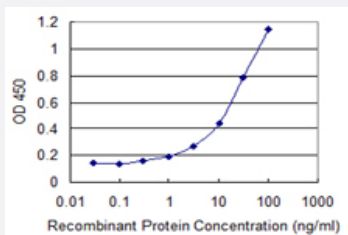
Western Blot (Cell lysate)

ZYX monoclonal antibody (M02), clone 2D1 Western Blot analysis of ZYX expression in NIH/3T3 (Cat # L018V1).



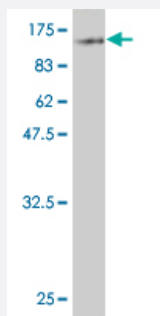
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



Sandwich ELISA (Recombinant protein)

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



Western Blot detection against Immunogen (88.66 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant ZYX.
Immunogen	ZYX (AAH08743, 1 a.a. ~ 572 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MAAPRPSPAISVSVSAPAFYAPQEKFGPVVAPKPKVNPFRPGDSEPPAPGAQRAQMGRVGEI PPPPPEDFPLPPPPLAGDGDDAEGALGGAFFFFPPPIEESFPAPLEEEIFSPPPPPPEEEGGP EAPIPPPPQPREKVSSIDLEIDSLSSLLDDMTKNDPFKARVSSGYVPPPVATPFSSKSSTKPAAG GTAPLPPWKSPSSSQPLPQVPAPAQSQTQFHVQPQPKPQVQLHVQSQTQPVSLANTQPRG PPASSPAPAPKFSPVTPKFTPVASKFSPGAPGGSGSQPNQKLGHPEALSAGTGSPQPPSFTYA QQREKPRVQEKQHPVPPPAQNQNQVRSPGAPGPLTLKEVEELEQLTQQLMQDMEHPQRQNVA VNELCGRCHQPLARAQPAVRALGQLFHACFTCHQCAQQLQGQQFYSLGAPYCEGCYTDLEK CNTCGEPITDRMLRATGKAYHPHCFTCVVCARPLEGTSFMDQANRPHCVDPYHKQYAPRCSVC SEPIMPEPGRDETVRVVALDKNFHMKCYECEDCGKPLSIEADDNGCFPLDGHVLCRKCHTARA QT
Host	Mouse
Reactivity	Human, Mouse
Interspecies Antigen Sequence	Mouse (86); Rat (85)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (88.66 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

ZYX monoclonal antibody (M02), clone 2D1 Western Blot analysis of ZYX expression in NIH/3T3 (Cat # L018V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

Gene Info — ZYX

Entrez GeneID	7791
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GeneBank Accession#	BC008743
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Protein Accession#	AAH08743
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Gene Name	ZYX
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Gene Alias	ESP-2, HED-2
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Gene Description	zyxin
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Omim ID	602002
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Gene Ontology	Hyperlink
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Gene Summary

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. [provided by RefSeq]

Other Designations

-

Publication Reference

- [Zyxin is a transforming growth factor- \$\beta\$ \(TGF- \$\beta\$ \)/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.

The Journal of Biological Chemistry 2012 Sep; 287(37):31393.

Application: WB-Ce, Human , A-549 cells

Pathway

- [Focal adhesion](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)