

Goat Anti-ZYX Antibody

Peptide-affinity purified goat antibody Catalog # AF2217a

Specification

Goat Anti-ZYX Antibody - Product Information

Application WB, E
Primary Accession Q15942

Other Accession <u>NP_003452</u>, <u>7791</u>

Reactivity
Predicted
Dog
Host
Clonality
Polyclonal

Concentration 100ug/200ul Isotype IgG
Calculated MW 61277

Goat Anti-ZYX Antibody - Additional Information

Gene ID 7791

Other Names

Zyxin, Zyxin-2, ZYX

Dilution WB~~1:1000

E~~N/A

Format

0.5~mg~lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-ZYX Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-ZYX Antibody - Protein Information

Name ZYX

Function

Adhesion plaque protein. Binds alpha-actinin and the CRP protein. Important for targeting TES and ENA/VASP family members to focal adhesions and for the formation of actin-rich structures. May



be a component of a signal transduction pathway that mediates adhesion- stimulated changes in gene expression (By similarity).

Cellular Location

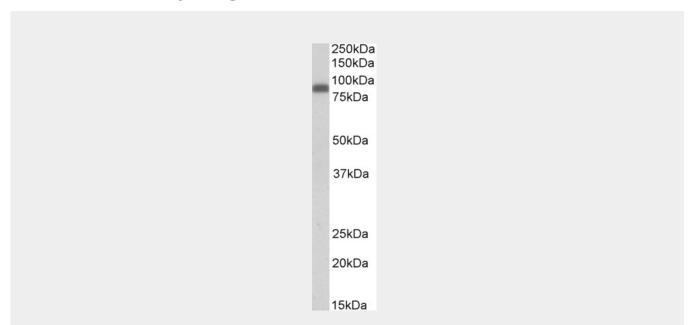
Cytoplasm. Cytoplasm, cytoskeleton. Nucleus. Cell junction, focal adhesion. Note=Associates with the actin cytoskeleton near the adhesion plaques. Enters the nucleus in the presence of HESX1

Goat Anti-ZYX Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Goat Anti-ZYX Antibody - Images



AF2217a (0.1 μ g/ml) staining of Peripheral Blood Mononucleocytes lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-ZYX Antibody - 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.





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Goat Anti-ZYX Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.

Synemin interacts with the LIM domain protein zyxin and is essential for cell adhesion and migration. Sun N, et al. Exp Cell Res, 2010 Feb 1. PMID 19853601.

Zyxin is involved in thrombin signaling via interaction with PAR-1 receptor. Han J, et al. FASEB J, 2009 Dec. PMID 19690217.

Mechanical forces facilitate actin polymerization at focal adhesions in a zyxin-dependent manner. Hirata H, et al. J Cell Sci, 2008 Sep 1. PMID 18682496.