

Goat Anti-ZYX Antibody
Peptide-affinity purified goat antibody
Catalog # AF2217a**Specification**

Goat Anti-ZYX Antibody - Product Information

Application	WB
Primary Accession	Q15942
Other Accession	NP_003452 , 7791
Reactivity	Human
Predicted	Dog
Host	Goat
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

Format

0.5 mg IgG/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](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-ZYX Antibody - Images



AF2217a (0.1 µg/ml) staining of Peripheral Blood Mononucleocytes lysate (35 µg 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.

Goat Anti-ZYX Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-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.