

Zyxin (phospho Ser142) rabbit pAb**Cat#: orb770429 (Manual)**

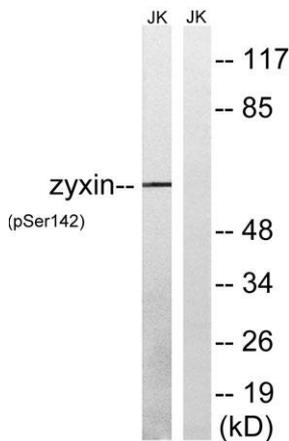
For research use only. Not intended for diagnostic use.

| | |
|---------------------------------|--|
| Product Name | Zyxin (phospho Ser142) rabbit pAb |
| Host species | Rabbit |
| Applications | WB;ELISA |
| Species Cross-Reactivity | Human;Rat;Mouse; |
| Recommended dilutions | Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications. |
| Immunogen | The antiserum was produced against synthesized peptide derived from human Zyxin around the phosphorylation site of Ser142. AA range:108-157 |
| Specificity | Phospho-Zyxin (S142) Polyclonal Antibody detects endogenous levels of Zyxin protein only when phosphorylated at S142. |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.. |
| Storage | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| Protein Name | Zyxin |
| Gene Name | ZYX |
| Cellular localization | Cytoplasm. Cytoplasm, cytoskeleton. Nucleus. Cell junction, focal adhesion. Associates with the actin cytoskeleton near the adhesion plaques. Enters the nucleus in the presence of HESX1. |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |

| | |
|--------------------------------|---------------------|
| Clonality | Polyclonal |
| Concentration | 1 mg/ml |
| Observed band | 61kD |
| Human Gene ID | 7791 |
| Human Swiss-Prot Number | Q15942 |
| Alternative Names | ZYX; Zyxin; Zyxin-2 |

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. [provided by RefSeq, Jul 2008],



Western blot analysis of lysates from Jurkat cells treated with paclitaxel 1uM 24h, using Zyxin (Phospho-Ser142) Antibody. The lane on the right is blocked with the phospho peptide.