# Paxillin (PXN) Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | Paxillin (PXN), Polyclonal Antibody |
| **Full Product Name** | Paxillin (Ab-118) Conjugated Antibody |
| **Product Gene Name** | anti-PXN antibody |
| **Product Synonym Names** | FLJ16691; PXN |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | 0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide |
| **Specificity** | The antibody detects endogenous level of total Paxillin protein. |
| **Preparation and Storage** | Store at 4 degree C for 6 months. |
| **Molecular Weight** | 64,505 Da |
| **Chromosome Location** | Chromosome: 12; NC_000012.11 (120648242..120703574, complement). Location: 12q24.31 |
| **OMIM** | 602505 |
| **3D Structure** | ModBase 3D Structure for P49023 |
| **Immunogen** | Peptide sequence around aa. 116~120 (H-V-Y-S-F) derived from Human Paxillin. |
| **Conjugation** | Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750 |
| **Excitation Emission** | AF350: 346nm/442nm |
| **Applications Tested/Suitable for anti-PXN antibody** | Most Applications |
| **Application Notes for anti-PXN antibody** | Suggested Dilution:<br>AF350 conjugated: most applications: 1:50-1:250<br>AF405 conjugated: most applications: 1:50-1:250<br>AF488 conjugated: most applications: 1:50-1:250<br>AF555 conjugated: most applications: 1:50-1:250<br>AF594 conjugated: most applications: 1:50-1:250<br>AF647 conjugated: most applications: 1:50-1:250<br>AF680 conjugated: most applications: 1:50-1:250<br>AF750 conjugated: most applications: 1:50-1:250<br>Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000 |
| **Related Product Information for anti-PXN antibody** | Cytoskeletal protein involved in actin-membrane attachment at sites of cell adhesion to the extracellular matrix (focal adhesion). |
| **Other Notes** | Small volumes of anti-PXN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for PXN purchase** | MBS9438702 is an antibody targeting PXN. Also known as Paxillin (Ab-118) Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PXN. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 170932514 |
| **NCBI GeneID** | 5829 |
| **NCBI Accession #** | NP_001074324.1 |
| **UniProt Primary Accession #** | P49023 |
| **UniProt Secondary Accession #** | O14970; O14971; O60360; Q5HYA4; B2RAI3; B7ZMB4 |
| **UniProt Related Accession #** | P49023 |
| **GenBank Nucleotide #** | NM_001080855.1 |
| **NCBI Official Full Name** | paxillin isoform 2 |
| **NCBI Official Synonym Full Names** | paxillin |
| **NCBI Official Symbol** | PXN |
| **UniProt Protein Name** | Paxillin |
| **Protein Family** | Paxillin |
| **UniProt Gene Name** | PXN |
| **UniProt Entry Name** | PAXI_HUMAN |
| **NCBI Protein Information** | paxillin |
| **NCBI Summary for PXN** | This gene encodes a cytoskeletal protein involved in actin-membrane attachment at sites of cell adhesion to the extracellular matrix (focal adhesion). Alternatively spliced transcript variants encoding different isoforms have been described for this gene. These isoforms exhibit different expression pattern, and have different biochemical, as well as physiological properties (PMID:9054445). [provided by RefSeq, Aug 2011] |
| **UniProt Comments for PXN** | PXN: a multi-domain cytoskeletal protein involved in actin-membrane attachment that localizes primarily to focal adhesion sites to the extracellular matrix. Phosphorylated by focal adhesion kinase (FAK) and is a component of integrin signaling. Its phosphorylation provides docking sites for recruitment of signaling molecules to focal adhesions. Binds in vitro to vinculin as well as to the SH3 domain of c-SRC and, when tyrosine phosphorylated, to the Crk SH2 domain. Interacts with GIT1, NUDT16L1/SDOS, PARVA and TGFB1I1. Component of cytoplasmic complexes, which also contain GIT1, ARHGEF6 and PAK1. Binds DDEF2. Interacts with unphosphorylated ITGA4. Interacts with RNF5.Three alternatively-spliced isoforms have been described. Isoform beta binds to focal adhesion kinase but weakly to vinculin. Isoform gamma binds to vinculin but only weakly to focal adhesion kinase.<br><br>Protein type: Adaptor/scaffold; Motility/polarity/chemotaxis; Cell adhesion; Cytoskeletal<br><br>Chromosomal Location of Human Ortholog: 12q24.31<br><br>Cellular Component: nucleoplasm; microtubule associated complex; focal adhesion; lamellipodium; cytoplasm; plasma membrane; stress fiber; cell cortex; cytosol<br><br>Molecular Function: integrin binding; protein binding; zinc ion binding; beta-catenin binding; BH4 domain binding; protein kinase binding; vinculin binding<br><br>Biological Process: epidermal growth factor receptor signaling pathway; lamellipodium biogenesis; focal adhesion formation; integrin-mediated signaling pathway; peptidyl-tyrosine phosphorylation; activation of MAPK activity; signal complex assembly; cytoskeleton organization and biogenesis; signal transduction; regulation of cell shape; branching morphogenesis of a tube; muscle contraction; transforming growth factor beta receptor signaling pathway; vascular endothelial growth factor receptor signaling pathway; cell adhesion |
| **Research Articles on PXN** | **1.** Paxillin is critical for integrating physical cues from the ECM with chemical motility signals by spatially constraining where cells form motile processes, and thereby regulates directional migration. |
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