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# PXN Antibody (Y118)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6408d

## Product Information

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|---|---|
| **Application** | WB, IHC-P, E |
| **Primary Accession** | P49023 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat, Bovine, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB15414 |
| **Calculated MW** | 64505 |
| **Antigen Region** | 94-125 |

## Additional Information

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| **Gene ID** | 5829 |
| **Other Names** | Paxillin, PXN |
| **Target/Specificity** | This PXN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 94-125 amino acids from human PXN. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | PXN Antibody (Y118) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

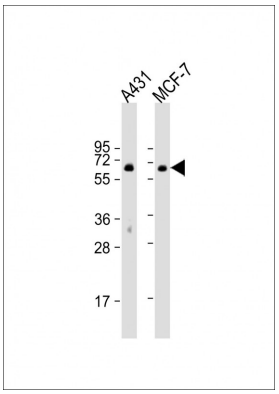
| | |
|---|---|
| **Name** | PXN ( HGNC:9718) |
| **Function** | Cytoskeletal protein involved in actin-membrane attachment at sites of cell adhesion to the extracellular matrix (focal adhesion). Recruits other proteins such as TRIM15 to focal adhesion. |
| **Cellular Location** | Cytoplasm, cytoskeleton. Cell junction, focal adhesion. Cytoplasm, cell cortex |

{ECO:0000250|UniProtKB:Q8VI36}. Note=Colocalizes with integrins at the cell periphery. Colocalize with PXN to membrane ruffles and the leading edge of migrating cells (PubMed:23128389). {ECO:0000250, ECO:0000269|PubMed:23128389}

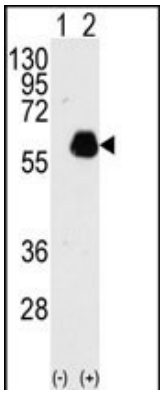
## Background

PXN is a cytoskeletal adapter protein involved in organisation and function of focal adhesions, which are critical to cell adhesion and migration. This in turn plays a role in a wide variety of processes including embryogenesis, organogenesis, wound repair, inflammation and cancer. PXN contains LD motifs, LIM domains, SH3 and SH2 binding domains that serve as docking sites for cytoskeletal proteins, tyrosine kinases (e.g., FAK, Pyk 2, Src), serine/threonine kinases, GTPase activating proteins and other adaptor proteins (e.g., Actin, Vinculin, Crk).

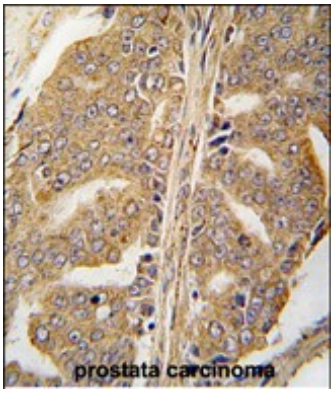
## Images




All lanes : Anti-PXN Antibody (Y118) at 1:1000 dilution Lane 1: A431 whole cell lysate Lane 2: MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 65 kDa Blocking/Dilution buffer: 5% NFDM/TBST.




Western blot analysis of PXN(arrow) using rabbit polyclonal PXN Antibody (Y118) (Cat.#AP6408d). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with PXN gene (Lane 2) (Origene Technologies).




Formalin-fixed and paraffin-embedded human prostata carcinoma tissue reacted with PXN Antibody (Y118) (Cat.#AP6408d), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.