

## Anti-Paxillin/PXN Antibody Picoband® Biotin Conjugated

Catalog Number: A01033-2-Biotin

### About PXN

PXN(Paxillin) is a signal transduction adaptor protein discovered in 1990 in the laboratory of Keith Burridge. Salgia et al.(1995) mapped the paxillin gene to 12q24 using fluorescence in situ hybridization. The C-terminal region of paxillin contains four LIM domains that target paxillin to focal adhesions, it is presumed through a direct association with the cytoplasmic tail of beta-integrin. The N-terminal region of paxillin is rich in protein-protein interaction sites. The proteins that bind to paxillin are diverse and include protein tyrosine kinases, such as Src and FAK, structural proteins, such as vinculin and actopaxin, and regulators of actin organization, such as COOL/PIX and PKL/GIT. Paxillin is tyrosine-phosphorylated by FAK and Src upon integrin engagement or growth factor stimulation, creating binding sites for the adapter protein Crk. The paxillin protein contains 4 LIM domains, a proline-rich domain containing a consensus SH3-binding site, and 3 potential SH2-binding sites. On Northern blots, paxillin was expressed as a 3.7-kb mRNA in all tissues tested.

### Overview

Product Name	Anti-Paxillin/PXN Antibody Picoband® Biotin Conjugated
Reactive Species	Human, Mouse, Rat
Application	WB, IHC, ELISA
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P49023

### Technical Details

Immunogen	E.coli-derived human Paxillin/PXN recombinant protein (Position: A9-K570).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin

Suggested Dilutions

Western blot, Optimal dilutions should be determined by end users.  
Immunohistochemistry (Paraffin-embedded Section), Optimal dilutions should be determined by end users.  
ELISA, Optimal dilutions should be determined by end users.

## 1 Publications Citing This Product

1. PubMed ID: 24637093, Zhong S, Luo R, Wang X, Tang L, Wu J, Wang J, Huang R, Sun H, Huang N. Colloids Surf B Biointerfaces. 2014 Apr 1;116:553-60. Doi: 10.1016/J.Colsurfb.2014.01.030. Epub 2014 Jan 30. Effects Of Polydopamine Functionalized Titanium Dioxide Nanotubes O...

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