

Anti-Paxillin Antibody
Catalog # ABO11112**Specification**

Anti-Paxillin Antibody - Product Information

Application	WB, IHC-P, IHC-F, ICC
Primary Accession	P49023
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Paxillin(PXN) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Paxillin Antibody - Additional Information

Gene ID 5829

Other Names

Paxillin, PXN

Calculated MW

64505 MW KDa

Application Details

Immunocytochemistry , 0.5-1 µg/ml, Human, Mouse, Rat
Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Rat, Human, Mouse
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Cytoplasm, cytoskeleton . Cell junction, focal adhesion . Cytoplasm, cell cortex . Colocalizes with integrins at the cell periphery. .

Protein Name

Paxillin

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of human Paxillin(456-472aa HEKDGKAYCRKDYFDMF), identical to the related mouse and rat sequences.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the paxillin family.

Anti-Paxillin Antibody - 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.

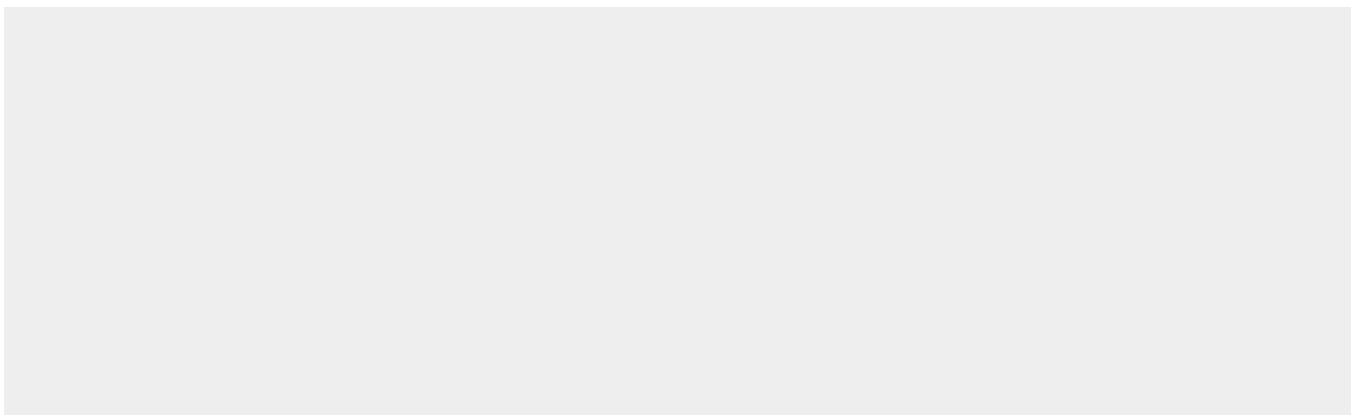
Cellular Location

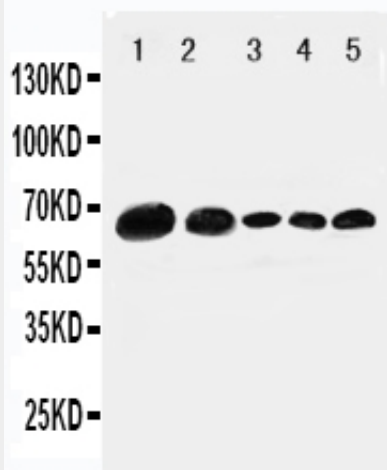
Cytoplasm, cytoskeleton. Cell junction, focal adhesion. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q8VI36}. Note=Colocalizes with integrins at the cell periphery. Colocalize with PXN to membrane ruffles and the leading edge of migrating cells (PubMed:23128389). {ECO:0000250, ECO:0000269|PubMed:23128389}

Anti-Paxillin Antibody - Protocols

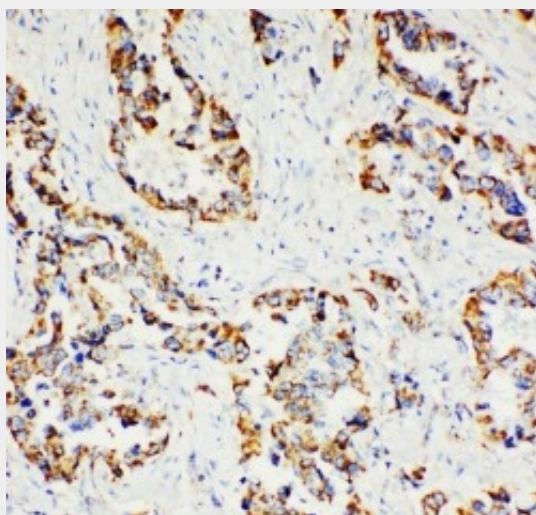
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

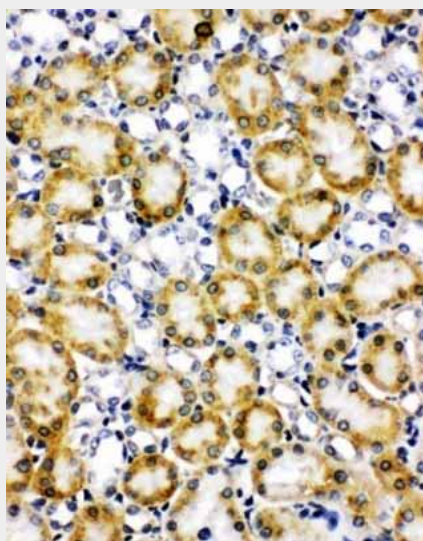
Anti-Paxillin Antibody - Images



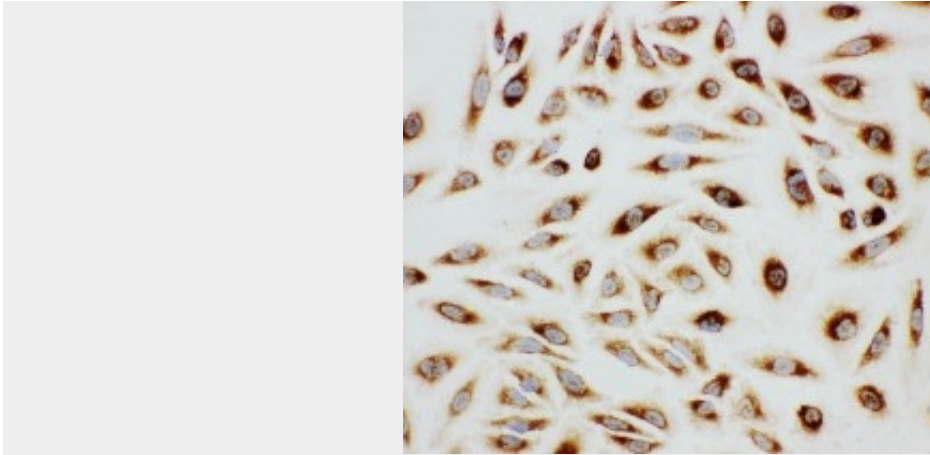
Anti-Paxillin antibody, ABO11112, Western blotting Lane 1: 293T Cell Lysate Lane 2: HELA Cell Lysate Lane 3: MCF-7 Cell Lysate Lane 4: MM231 Cell Lysate Lane 5: JUKAT Cell Lysate



Anti-Paxillin antibody, ABO11112, IHC(P)IHC(P): Human Lung Cancer Tissue



Anti-Paxillin antibody, ABO11112, IHC(F)IHC(F): Rat Kidney Tissue



Anti-Paxillin antibody, ABO11112, ICCICC: HELA Cell

Anti-Paxillin Antibody - Background

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.