

Rabbit Paxillin Polyclonal Antibody | anti-PXN antibody

Phospho-Paxillin (Ser272) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329365	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

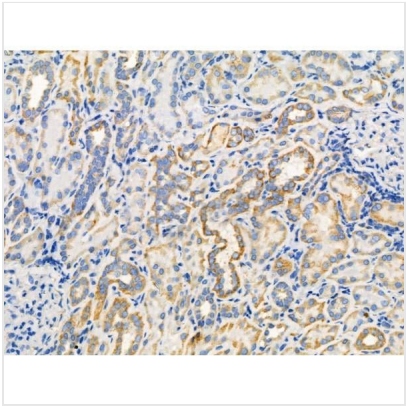
PRODUCT SYNONYMS

Paxillin; Polyclonal Antibody; Phospho-Paxillin (Ser272) Antibody; FLJ16691; FLJ23042; Paired box protein Pax 1; PAX 1; PAX1; PAX1_HUMAN; Paxillin alpha; PXN; PXN protein; anti-PXN antibody

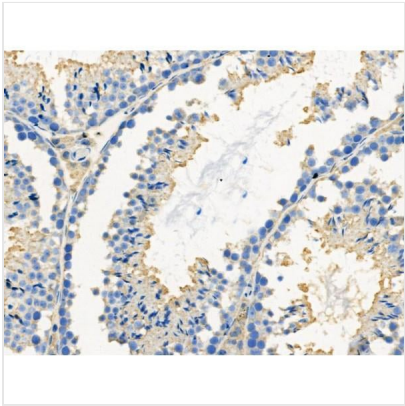
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Paxillin (Ser272) Antibody detects endogenous levels of Paxillin only when phosphorylated at Ser272.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-PXN antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Paxillin around the phosphorylation site of Ser272.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated by MAPK1/ERK2 (By similarity). Phosphorylated on tyrosine residues during integrin-mediated cell adhesion, embryonic development, fibroblast transformation and following stimulation of cells by mitogens. Phosphorylation at Ser-244 by CDK5 reduces its interaction with PTK2/FAK1 in matrix-cell focal adhesions (MCFA) during oligodendrocytes (OLs) differentiation. Phosphorylation at Tyr-31 and Tyr-118 by PTK6 promote the activation of RAC1 via CRK/CrKII, thereby promoting migration and invasion. Phosphorylation at Ser-250 by SLK is required for PXN redistribution and cell motility.
Subunit Structure	Binds in vitro to vinculin as well as to the SH3 domain of SRC and, when tyrosine phosphorylated, to the SH2 domain of V-CRK. Isoform beta binds to PTK2/FAK1 but weakly to vinculin. Isoform gamma binds to vinculin but only weakly to PTK2/FAK1. Interacts with GIT1, NUDT16L1/SDOS and TGFB1I1. Component of cytoplasmic complexes, which also contain GIT1, ARHGEF6 and PAK1. Interacts with PTK2/FAK1 and PTK2B/PYK2. Binds ASAP2. Interacts with unphosphorylated ITGA4. Interacts with RNF5 and PDCD10. Interacts with NEK3 and this interaction is prolactin-dependent. Interacts with PTK6. Interacts with SORBS1, PARVA and PARVB. Interacts (via cytoplasmic domain) with CEACAM1; the interaction is phosphotyrosyl-dependent. Interacts with LIMA1; this complex stabilizes actin dynamics.
Similarity	Belongs to the paxillin family.
Subcellular Location	Cytoplasm>Cytoskeleton. Cell junction>Focal adhesion. Cytoplasm>Cell cortex. Note: Colocalizes with integrins at the cell periphery. Colocalize with PXN to membrane ruffles and the leading edge of migrating cells (PubMed:23128389).

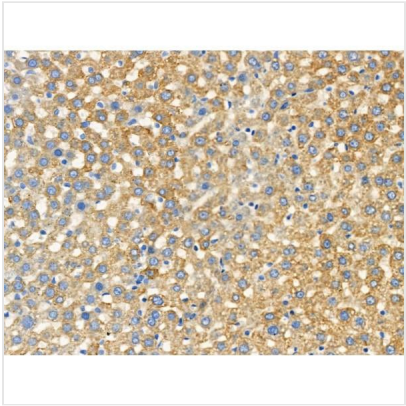
IMAGES



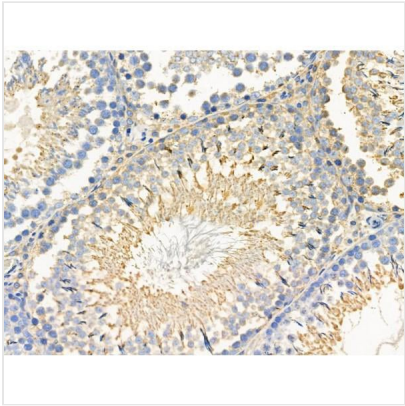
IHC (Immunohistochemistry)
At 1/100 staining Human kidney cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



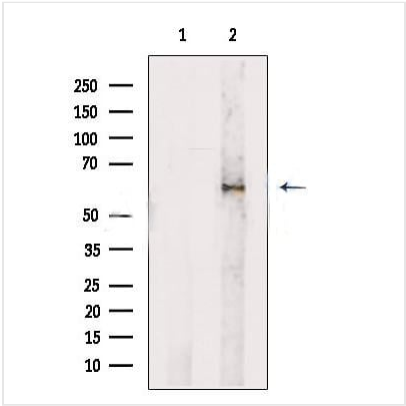
IHC (Immunohistochemistry)
At 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
Staining Rat testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from Iovo, using Phospho-Paxillin (Ser272) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

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).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	170932514
NCBI GeneID	5829
NCBI Accession #	NP_001074324.1
NCBI GenBank Nucleotide #	NM_001080855.2
UniProt Accession #	P49023; O14970; O14971; O60360; Q5HYA4; B2RAI3; B7ZMB4
Molecular Weight	64,505 Da
NCBI Official Full Name	paxillin isoform 2
NCBI Official Synonym Full Names	paxillin
NCBI Official Symbol	PXN
NCBI Protein Information	paxillin
UniProt Protein Name	Paxillin
UniProt Gene Name	PXN
UniProt Entry Name	PAXI_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.