

Datasheet for ABIN3044187
anti-Paxillin antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	Paxillin (PXN)
Binding Specificity:	AA 456-472, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Paxillin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Paxillin(PXN) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse,Rat.
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.
Sequence:	HEKDGKAYCR KDYFDMF
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Paxillin(PXN) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse,Rat. Gene Name: paxillin

Product Details

Protein Name: Paxillin

Purification: Immunogen affinity purified.

Target Details

Target: Paxillin (PXN)

Alternative Name: PXN ([PXN Products](#))

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.

Synonyms: FLJ16691 antibody|FLJ23042 antibody|Paired box protein Pax 1 antibody|PAX 1 antibody|PAX1 antibody|PAX1_HUMAN antibody|Paxillin alpha antibody|Paxillin antibody|PXN antibody|PXN protein antibody

UniProt: [P49023](#)

Pathways: [MAPK Signaling](#), [EGFR Signaling Pathway](#), [Response to Growth Hormone Stimulus](#), [Cell-Cell Junction Organization](#), [Maintenance of Protein Location](#), [CXCR4-mediated Signaling Events](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [VEGF Signaling](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

Application Details

IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Rat, Predicted Species: Human, Mouse
ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P), IHC(F) and ICC.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

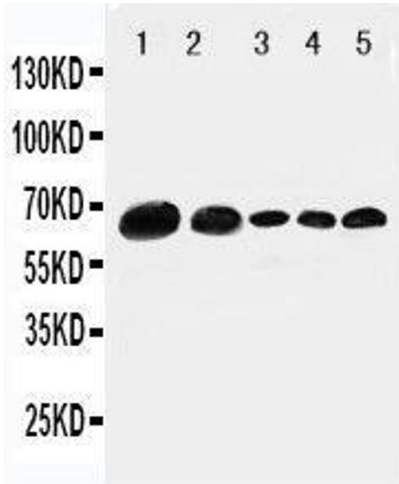
Storage: 4 °C/-20 °C

Storage Comment: 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.

Expiry Date: 12 months

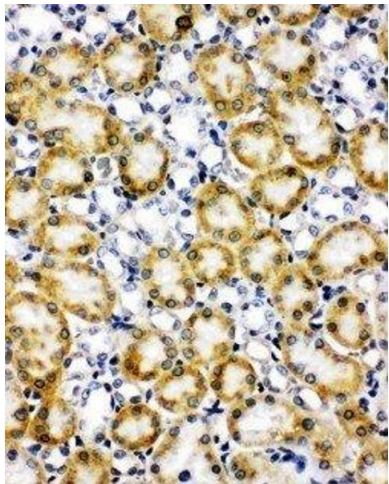
Publications

Product cited in: Luchinat, Barbieri, Rubino, Kozyreva, Cantini, Banci: "In-cell NMR reveals potential precursor of toxic species from SOD1 fALS mutants." in: **Nature communications**, Vol. 5, pp. 5502, (2014) ([PubMed](#)).



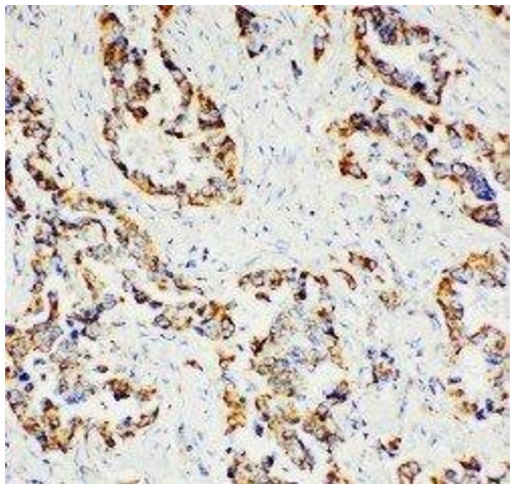
Western Blotting

Image 1. Anti-Paxillin antibody, 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



Immunohistochemistry

Image 2. Anti-Paxillin antibody, IHC(F) IHC(F): Rat Kidney Tissue



Immunohistochemistry

Image 3. Anti-Paxillin antibody, IHC(P) IHC(P): Human Lung Cancer Tissue

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3044187.