

Datasheet for ABIN968043

**anti-Paxillin antibody (AA 1-557)****3** Images**5** Publications[Go to Product page](#)

## Overview

Quantity:	150 µg
Target:	Paxillin (PXN)
Binding Specificity:	AA 1-557
Reactivity:	Human, Mouse, Rat, Chicken, Dog, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Paxillin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), BioImaging (BI)

## Product Details

Immunogen:	Chicken Paxillin aa. 1-557
Clone:	177-Paxillin
Isotype:	IgG1
Cross-Reactivity:	Human, Cow (Bovine), Dog (Canine), Mouse (Murine), Rat (Rattus)
Characteristics:	<ol style="list-style-type: none"><li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li><li>2. Please refer to us for technical protocols.</li><li>3. This antibody has been developed and certified for the bioimaging application. However, a routine bioimaging test is not performed on every lot. Researchers are encouraged to titrate the reagent for optimal performance.</li><li>4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive</li></ol>

## Product Details

- deposits in plumbing.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
6. Triton is a trademark of the Dow Chemical Company.

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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## Target Details

Target:	Paxillin (PXN)
Alternative Name:	Paxillin ( <a href="#">PXN Products</a> )
Background:	Paxillin, a focal adhesion protein, is a substrate for several tyrosine kinases such as src, FAK, and p120BRC/ABL. The tyrosine phosphorylation of paxillin is affected by conditions that change cell-cell adhesion. This is consistent with the possibility that paxillin is involved in the regulation of cell morphology. Additionally, because of its SH3-binding domain, paxillin associates tightly with FAK and Crk in an extracellular matrix-independent manner. Although paxillin was initially detected in fibroblasts, its phosphorylation may be important during neurite extension during differentiation.
Molecular Weight:	68 kDa
Pathways:	<a href="#">MAPK Signaling</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Response to Growth Hormone Stimulus</a> , <a href="#">Cell-Cell Junction Organization</a> , <a href="#">Maintenance of Protein Location</a> , <a href="#">CXCR4-mediated Signaling Events</a> , <a href="#">Signaling Events mediated by VEGFR1 and VEGFR2</a> , <a href="#">Signaling of Hepatocyte Growth Factor Receptor</a> , <a href="#">VEGF Signaling</a>

## Application Details

Application Notes:	<p>Bioimaging</p> <ol style="list-style-type: none"><li>1. Seed the cells in appropriate culture medium at ~10,000 cells per well in an 96-well Imaging Plate and culture overnight.</li><li>2. Remove the culture medium from the wells, and fix the cells by adding 100 myl of Fixation Buffer to each well. Incubate for 10 minutes at room temperature (RT).</li><li>3. Remove the fixative from the wells, and permeabilize the cells using either 90% methanol, or Triton™ X-100: a. Add 100 myl of -20°C 90% methanol to each well and incubate for 5 minutes at RT. OR b. Add 100 myl of 0.1% Triton™ X-100 to each well and incubate for 5 minutes at RT.</li><li>4. Remove the permeabilization buffer, and wash the wells twice with 100 myl of 1× PBS.</li><li>5. Remove the PBS, and block the cells by adding 100 myl of to each well. Incubate for 30</li></ol>
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## Application Details

minutes at RT.

6. Remove the blocking buffer and add 50 µl of the optimally titrated primary antibody (diluted in Stain Buffer) to each well, and incubate for 1 hour at RT.

7. Remove the primary antibody, and wash the wells three times with 100 µl of 1× PBS.

8. Remove the PBS, and add the second step reagent at its optimally titrated concentration in 50 µl to each well, and incubate in the dark for 1 hour at RT.

9. Remove the second step reagent, and wash the wells three times with 100 µl of 1× PBS.

10. Remove the PBS, and counter-stain the nuclei by adding 200 µl per well of 2 µg/ml Hoechst 33342 in 1× PBS to each well at least 15 minutes before imaging.

11. View and analyze the cells on an appropriate imaging instrument.

Comment: Related Products: ABIN968536, ABIN967389

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 250 µg/mL

Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store undiluted at -20°C.

## Publications

Product cited in: Ku, Meier: "Phosphorylation of paxillin via the ERK mitogen-activated protein kinase cascade in EL4 thymoma cells." in: **The Journal of biological chemistry**, Vol. 275, Issue 15, pp. 11333-40, (2000) ([PubMed](#)).

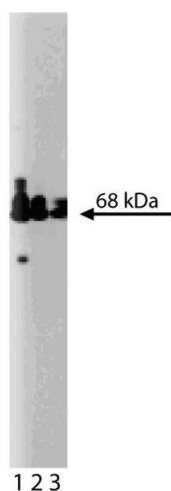
Takayama, Tanaka, Nagai, Okada et al.: "Adenovirus-mediated overexpression of C-terminal Src kinase (Csk) in type I astrocytes interferes with cell spreading and attachment to fibronectin. Correlation with tyrosine phosphorylations of ..." in: **The Journal of biological chemistry**, Vol. 274, Issue 4, pp. 2291-7, (1999) ([PubMed](#)).

Leventhal, Feldman: "Tyrosine phosphorylation and enhanced expression of paxillin during neuronal differentiation in vitro." in: **The Journal of biological chemistry**, Vol. 271, Issue 11, pp. 5957-60, (1996) ([PubMed](#)).

Salgia, Li, Lo, Brunkhorst, Kansas, Sobhany, Sun, Pisick, Hallek, Ernst: "Molecular cloning of human paxillin, a focal adhesion protein phosphorylated by P210BCR/ABL." in: **The Journal of biological chemistry**, Vol. 270, Issue 10, pp. 5039-47, (1995) ([PubMed](#)).

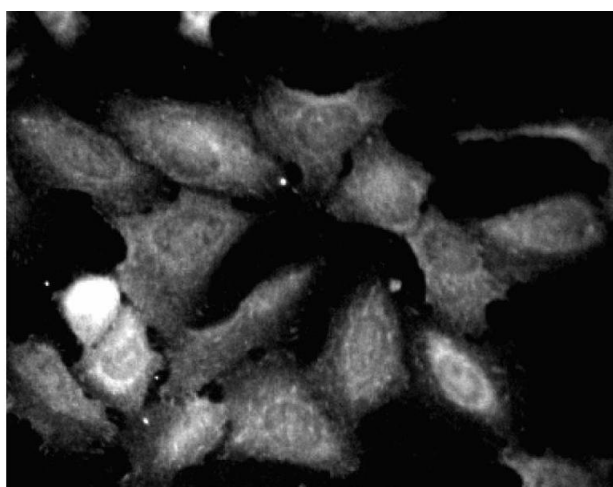
Turner, Glenney, Burridge: "Paxillin: a new vinculin-binding protein present in focal adhesions." in: **The Journal of cell biology**, Vol. 111, Issue 3, pp. 1059-68, (1990) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** Western blot analysis of Paxillin on a human endothelial lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the anti-Paxillin antibody.



### Immunofluorescence

**Image 2.** Immunofluorescent staining of HeLa (ATCC CCL-2) cells. Cells were seeded in a 96 well imaging plate at ~10 000 cells per well. After overnight incubation, cells were stained using the alcohol perm protocol and the anti-Paxillin antibody. The second step reagent was Alexa Fluor® 555 conjugated anti-mouse Ig (Invitrogen). The image was taken on a BD Pathway™ 855 Bioimager using a 20x objective. This antibody also stained A549 (ATCC CCL-185) and U-2 OS (ATCC HTB-96) cells and worked with both the Triton™ X-100 and alcohol perm protocols.

Image 3.

