**Product datasheet**

**Anti-Paxillin antibody [Y113] ab32084**

*Recombinant*  *RabMAb*

- **19 Abreviews**  **54 References**  **11 Images**

### Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-Paxillin antibody [Y113]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit monoclonal [Y113] to Paxillin</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
</tr>
<tr>
<td><strong>Specificity</strong></td>
<td>ab32084 recognises Paxillin alpha, beta and gamma isoforms.</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: WB, IHC-P, ICC/IF, Flow Cyt, IP</td>
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<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Mouse, Rat, Cow, Dog, Human</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Synthetic peptide within Human Paxillin aa 1-100 (N terminal). The exact sequence is proprietary.</td>
</tr>
<tr>
<td><strong>Positive control</strong></td>
<td>HeLa cell lysate, human breast carcinoma.</td>
</tr>
<tr>
<td><strong>General notes</strong></td>
<td>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents. This product is a recombinant rabbit monoclonal antibody.</td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.</td>
</tr>
<tr>
<td><strong>Dissociation constant (K_D)</strong></td>
<td>(K_D = 4.17 \times 10^{-10}) M</td>
</tr>
<tr>
<td><strong>Storage buffer</strong></td>
<td>PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Monoclonal</td>
</tr>
</tbody>
</table>
Clone number: Y113
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab32084 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>★★★☆☆☆☆☆</td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td>★★★★★</td>
<td>1/250.</td>
</tr>
<tr>
<td>Flow Cyt</td>
<td>★★★☆☆☆☆☆</td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>IP</td>
<td>★★★★★</td>
<td>1/200.</td>
</tr>
</tbody>
</table>

Target

Function: Cytoskeletal protein involved in actin-membrane attachment at sites of cell adhesion to the extracellular matrix (focal adhesion).

Sequence similarities: Belongs to the paxillin family.
Contains 4 LIM zinc-binding domains.

Post-translational modifications: Phosphorylated on tyrosine residues during integrin-mediated cell adhesion, embryonic development, fibroblast transformation and following stimulation of cells by mitogens.

Immunocytochemistry/ Immunofluorescence - Anti-Paxillin antibody [Y113] (ab32084)

Image: Courtesy of Dr. Shaohua Li, UMDNJ-Robert Wood Johnson Medical School

Sample: mouse embryonic fibroblasts

Preparation:

Fix in 3% PFA in PBS for 30 min at RT

Primary antibody: Rabbit anti-paxillin Y113 (ab32084), 1:100

Secondary antibody: Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488) pre-adsorbed (ab150081), 1:200

Rhodamine-phalloidin, 1:100

Nuclei were counterstained with DAPI

Flow Cytometry - Anti-Paxillin antibody [Y113] (ab32084)

Flow cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling with purified ab32084 at 1/100 dilution (10ug/ml) (Red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488)(ab150077)(1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black)(ab172730) was used as a isotype control. Cell without incubation with primary antibody and secondary antibody (Blue) were used as unlabeled control.
**Immunocytochemistry/ Immunofluorescence - Anti-Paxillin antibody [Y113] (ab32084)**

*ab32084 staining paxillin in MEF1 cells treated with (S)-(-)-Blebbistatin (ab120491), by ICC/IF. Decreased membrane expression of paxillin correlates with increased concentration of (S)-(-)-Blebbistatin, as described in literature.*

The cells were incubated at 37°C for 2h in media containing different concentrations of ab120491 ( (S)-(-)-Blebbistatin ) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with ab32084 (1/100 dilution) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (ab96899) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

**Western blot - Anti-Paxillin antibody [Y113] (ab32084)**

*Anti-Paxillin antibody [Y113] (ab32084) at 1/10000 dilution + HeLa cell lysate.*

**Predicted band size:** 68 kDa  
**Observed band size:** 60 kDa
ab32084 showing positive staining in Normal ovary tissue.

Anti-Paxillin antibody [Y113] (ab32084) at 1/5000 dilution + Mouse RAW264.7 whole cell lysate at 20 µg

**Secondary**

An HRP Donkey anti-rabbit IgG polyclonal at 1/10000 dilution

**Predicted band size:** 68 kDa

**Blocking step:** 5% Milk for 1 hour at 20°C.

**Gel:** SDS-PAGE

ab32084 showing positive staining in Ovarian carcinoma tissue.
ab32084 showing positive staining in Transitional cell carcinoma of kidney tissue.

Immunofluorescence analysis of bovine kidney cells, staining Paxillin with ab32084.

Cells were fixed with paraformaldehyde, permeabilized with 1% Triton X-100 and blocked with 5% BSA for 1 hour. Samples were incubated with primary antibody (1/2500 in 5% BSA) for 1 hour at 25°C. An undiluted AlexaFluor®488-conjugated goat anti-rabbit polyclonal IgG was used as the secondary antibody.
Immunocytochemistry/ Immunofluorescence - Anti-Paxillin antibody [Y113] (ab32084)

ab32084 staining paxillin in MEF1 cells treated with (+/-)-blebbistatin (ab120425), by ICC/IF. Decreased membrane expression of paxillin correlates with increased concentration of (+/-)-blebbistatin, as described in literature.

The cells were incubated at 37°C for 1h in media containing different concentrations of ab120425 ((+/-)-blebbistatin) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature.

Staining of the treated cells with ab32084 (1/100 dilution) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (ab96899) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

Other - Anti-Paxillin antibody [Y113] (ab32084)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

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