abcam

ab246719

Alexa Fluor® 647 Anti-Paxillin antibody [Y113]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	Alexa Fluor® 647
Excitation/Emission	Ex: 650nm, Em: 665nm
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	Y113
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Human

Dilution info	1/100
Notes	This product gave a positive signal in MCF7 fixed with 4% formaldehyde (10 min) and 100% methanol (5 min).

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Expected

Species	Human, Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Expected

Species	Human, Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information Pxn

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.

Storage

Shipped at conditions	Blue Ice

Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle, Stable for 12 months at -20°C, Store in the dark

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

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Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Paxillin also known as PXN is a cytoskeletal protein involved in the assembly of focal adhesions. It has a molecular weight of approximately 68 kDa. You will find Paxillin expressed widely in various tissues including the liver colon and lung.

	Paxillin plays a part in cell motility by interacting with other focal adhesion proteins. It plays a significant mechanical role by serving as a docking site for structural and signaling molecules.
Biological function summary	Paxillin serves key functions in cellular processes such as migration proliferation and survival. It interacts with different proteins including vinculin and talin forming part of a complex at the focal adhesion sites. The phosphorylation state of Paxillin can modulate its interactions and in this way influence the assembly of signaling complexes that control dynamic cellular processes.
Pathways	Paxillin participates in the integrin signaling and MAPK pathways. It operates by linking integrin receptors to the actin cytoskeleton facilitating signal transduction. Paxillin phosphorylation is an important regulatory mechanism within these pathways. In particular its interaction with focal adhesion kinase (FAK) and Src family kinases signifies its role in transmitting signals from the extracellular matrix to the cellular interior which impacts cell behavior and response.
Associated diseases and disorders	Paxillin has links with osteosarcoma and lung cancer. Deregulation of Paxillin expression or its phosphorylation state contributes to oncogenic transformation and tumor progression. In cancer Paxillin associates with altered activity of proteins such as Src and FAK exacerbating disease states. This relationship highlights Paxillin's potential as a biomarker and therapeutic target in treating related malignancies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

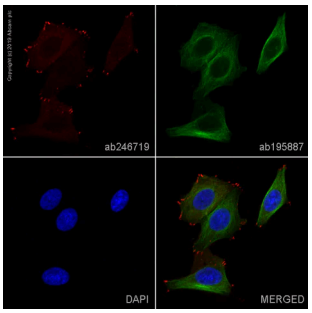
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

1 product image



Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 647 Anti-Paxillin antibody [Y113] (ab246719)

Paxillin Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Paxillin antibody

ab246719 staining Paxillin in MCF7 cells. The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab246719 at 1/100 dilution (shown in red) and ab195887, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 488), at 1/250 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue).
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

This product also gave a positive signal under the same testing conditions in MCF7 cells fixed with 100% methanol (5 min).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.