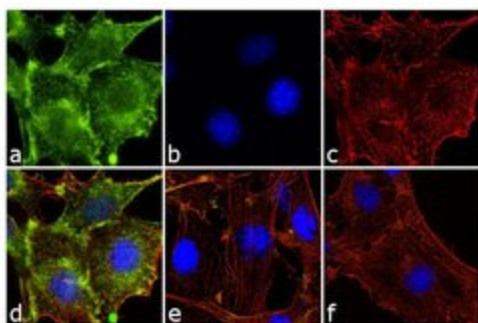


# Phospho-Paxillin (Tyr31) Polyclonal Antibody

Product Details	
Size	100 µL
Species	Human, Mouse
Published Species	Artificial Control, Tag, Rat, Pig, Human, Mouse
Expression System	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from the region of human paxillin that contains tyrosine 31.
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	Dulbecco's PBS, pH 7.3, with 50% glycerol, 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20°C
RRID	AB_2533732

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	1:250	3 Publications
Immunofluorescence (IF)	1:250	2 Publications
Immunohistochemistry (IHC)	Assay Dependent	3 Publications
Western Blot (WB)	1:1000	17 Publications
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	3 Publications

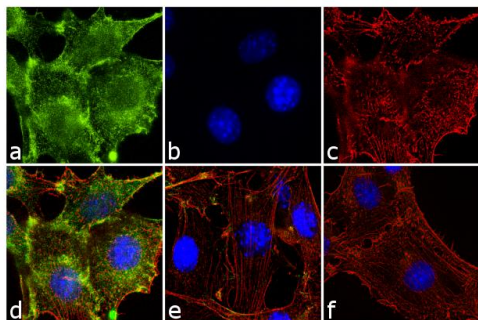
## Advanced Verification Data



### Phospho-Paxillin (Tyr31) Antibody (44-720G)

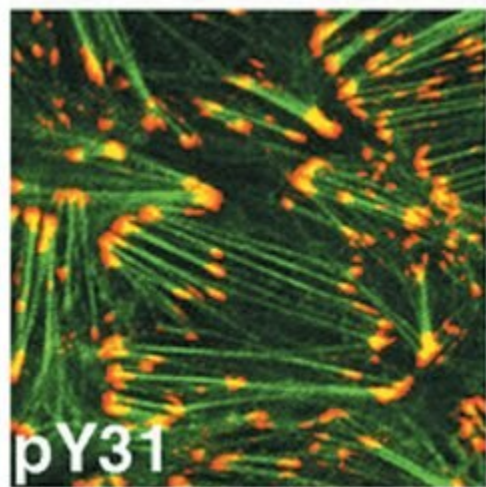
Modulation of target protein phosphorylation by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of Paxillin pY31 using Paxillin (pY31) polyclonal antibody (Product # 44-720G) shows induced expression of Paxillin (p31) in the cytoplasm of NIH/3T3 cells treated with PDGF. Cell treatment validation info.

## Product Images For Phospho-Paxillin (Tyr31) Polyclonal Antibody



### Phospho-Paxillin (Tyr31) Antibody (44-720G) in IF

Immunofluorescence analysis of Phospho-Paxillin pTyr31 was done on 70% confluent log phase NIH/3T3 cells were treated with 50 ng of PDGF for 10 minutes and fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Phospho-Paxillin (Tyr31) Rabbit Polyclonal Antibody (Product # 44-720G) at 1:250 dilution in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d is a merged image showing cytoplasmic localization. Panel e is untreated cells with less signal. Panel f is a no primary antibody control. The images were captured at 60X magnification.



### Phospho-Paxillin (Tyr31) Antibody (44-720G) in IF

Immunofluorescent staining. Paxillin (pY31) phosphospecific antibody. Co-localization of paxillin (pY31) and actin in TGF-beta treated NMμMG cells. Green: actin stress fibers, Orange: paxillin (pY31), Yellow: co-localization. (Product # 44-720G).

View more figures on [thermofisher.com](https://thermofisher.com)

## Immunocytochemistry (3)

### Scientific reports

#### Plk1 Mediates Paxillin Phosphorylation (Ser-272), Centrosome Maturation, and Airway Smooth Muscle Layer Thickening in Allergic Asthma.

"Published figure using Phospho-Paxillin (Tyr31) polyclonal antibody (Product # 44-720G) in Immunocytochemistry"

Authors: Rezey AC, Gerlach BD, Wang R, Liao G, Tang DD

**Species**  
Artificial Control

**Dilution**  
Not Cited

**Year**  
2019

### Oncology reports

#### Nicotinic acid impairs assembly of leading edge in glioma cells.

"44-720G was used in Immunocytochemistry to propose that NA treatment may be developed into a potential therapy for malignant glioma."

Authors: Yang X, Mei S, Niu H, Li J

**Species**  
Mouse

**Dilution**  
1:200

**Year**  
2017

[View more ICC references on thermofisher.com](#)

## Western Blot (17)

### International journal of oncology

#### Enhancement of malignant properties of human glioma cells by ganglioside GD3/GD2.

"44-720G was used in Western Blotting to suggest that GD3 and GD2 highly expressed in gliomas confer increased invasion and mobility, cell growth abilities under low serum conditions, and increased ratios of the S-G2/M phase in the cell cycle."

Authors: Iwasawa T, Zhang P, Ohkawa Y, Momota H, Wakabayashi T, Ohmi Y, Bhuiyan RH, Furukawa K, Furukawa K

**Species**  
Human

**Dilution**  
1:1000

**Year**  
2018

### Oncology letters

#### 15-Deoxy-<sup>12,14</sup>-prostaglandin J<sub>2</sub> inhibits migration of human thyroid carcinoma cells by disrupting focal adhesion complex and adherens junction.

"44720G was used in western blot to elucidate the mechanism by which 15d-PGJ2 suppresses human thyroid carcinoma cell migration"

Authors: Wu YC, Zhao YT, Cheng YC, Chen Y

**Species**  
Human

**Dilution**  
1:500

**Year**  
2017

[View more WB references on thermofisher.com](#)

## More applications with references on thermofisher.com

IHC (3)   Misc (3)   IF (2)   IP (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.