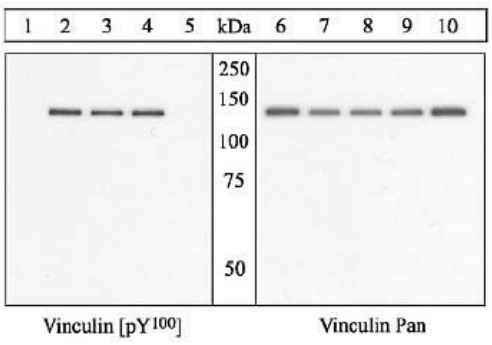
Phospho-Vinculin (Tyr100) Polyclonal Antibody

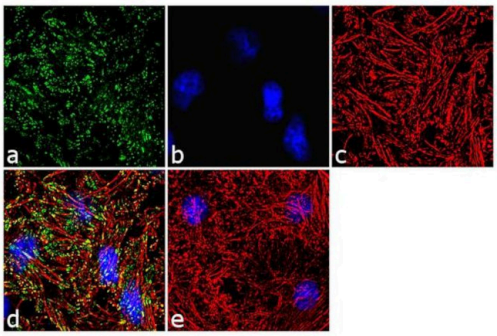
Product Details	
Size	100 µL
Species Reactivity	Chicken, Human
Published Species	Rat, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from a region of human vinculin that contains tyrosine 100. The sequence is conserved in mouse and chicken.
Form	Liquid
Purification	Affinity chromatography
Storage buffer	Dulbecco's PBS, pH 7.3, with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2533566

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	4 Publications
Immunocytochemistry (ICC/IF)	1:250	1 Publication

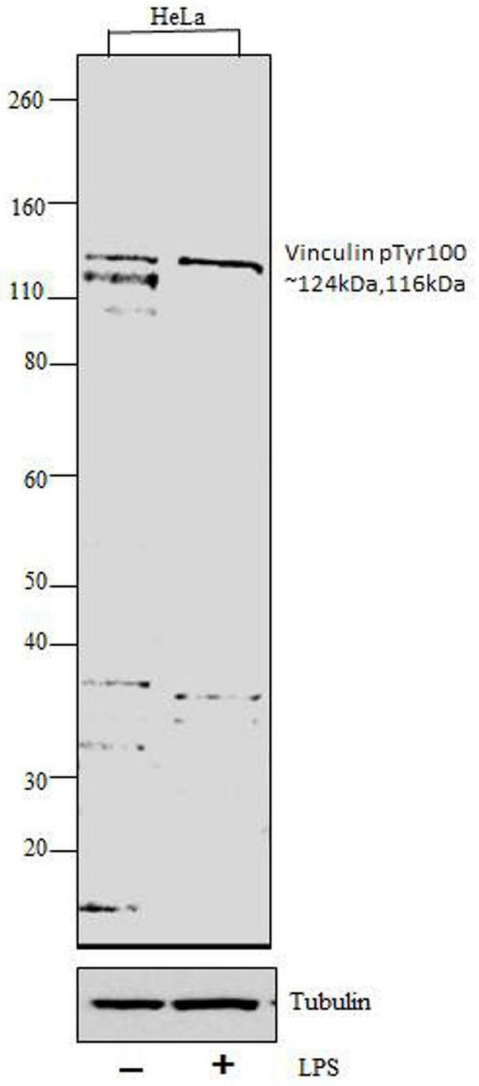
Product Images For Phospho-Vinculin (Tyr100) Polyclonal Antibody



Phospho-Vinculin (Tyr100) Antibody (44-1074G) in WB
Peptide Competition: Lysates were prepared from COS cells co-transfected with activated Src and His-tagged chicken vinculin cDNA which were either untreated (1 and 6) or treated with vanadate for 24 hr (2-5 and 7-10).



Phospho-Vinculin (Tyr100) Antibody (44-1074G) in ICC/IF
Immunofluorescence analysis of Phospho-Vinculin pTyr100 was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with Phospho-Vinculin pTyr100 Rabbit Polyclonal Antibody (Product # 44-1074G) at 1:250 dilution in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) 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 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing punctate membranous localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



Phospho-Vinculin (Tyr100) Antibody (44-1074G) in WB
Western blot analysis was performed on whole cell extracts (30 µg lysate) of HeLa (Lane 1) and HeLa treated with 100 ng/mL of LPS for 20 mins (Lane 2). The blots were probed with Anti-Phospho-Vinculin pTyr100 Rabbit Polyclonal Antibody (Product # 44-1074G, 1:1000 dilution) and detected by chemiluminescence Goat Anti-Rabbit IgG (H+L) Secondary Antibody, HRP conjugate (Product # G-21234, 1:5000 dilution). Both 116 kDa and 124 kDa bands (isoforms) were observed in HeLa and on treatment with LPS, only a 124 kDa band corresponding to Phospho-Vinculin pTyr100 was observed.Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0341BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane by wet transfer. The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

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5 References

Western Blot (4)

Cellular microbiology

Expression of CEACAM1 or CEACAM5 in AZ-521 cells restores the type IV secretion deficiency for translocation of CagA by Helicobacter pylori.

"44-1074G was used in Western Blotting to demonstrate that AZ-521 cells readily express integrin-1 , but overexpression of integrin-1 constructs did not restore the T4SS defect."

Authors: Tegtmeyer N,Harrer A,Schmitt V,Singer BB,Backert S

Year
2019

Species
Human

American journal of physiology. Endocrinology and metabolism

6-Mercaptopurine augments glucose transport activity in skeletal muscle cells in part via a mechanism dependent upon orphan nuclear receptor NR4A3.

Authors: Liu Q,Zhu X,Xu L,Fu Y,Garvey WT

Year
2013

Species
Rat

View more WB references on thermofisher.com

Immunocytochemistry (1)

Nanoscale

Peptide functionalized DNA hydrogel enhances neuroblastoma cell growth and differentiation.

"44-1074G was used in Immunocytochemistry-immunoflourescence to demonstrate strongly the ability of DNA-peptide based scaffolds as potential materials to develop nerve tissue conduits for neural tissue engineering applications in the future."

Authors: Hivare P,Gangrade A,Swarup G,Bhavsar K,Singh A,Gupta R,Thareja P,Gupta S,Bhatia D

Year
2022

Species
Human

More applications with references on thermofisher.com