

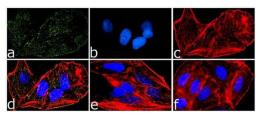


Phospho-PYK2 (Tyr579, Tyr580) Polyclonal Antibody

Product Details		
Size	100 μL	
Species Reactivity	Human, Mouse, Rat	
Published Species	Rat, Mouse, Human	
Host/Isotype	Rabbit / IgG	
Class	Polyclonal	
Туре	Antibody	
Conjugate	Unconjugated	
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from the region of human Pyk2 that contains tyrosines 579 and 580. The sequence is conserved in mouse and rat.	
Form	Liquid	
Purification	Antigen 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_2533706	

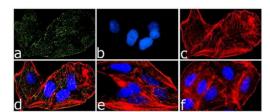
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	5 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-
Immunocytochemistry (ICC/IF)	1:250	-
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Images For Phospho-PYK2 (Tyr579, Tyr580) Polyclonal Antibody



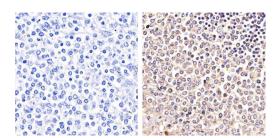
Phospho-PYK2 (Tyr579, Tyr580) Antibody (44-636G)

Modulation of expression of target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of Phospho-FAK2 (Tyr579, Tyr580) using anti-Phospho-FAK2 / PYK2 (Tyr580) rabbit polyclonal antibody (Product # 44-636G) shows induced expression of Phospho-FAK2 / PYK2 (Tyr580) in the A549 cell membranes treated with PDGF. {TM}



Phospho-PYK2 (Tyr579, Tyr580) Antibody (44-636G) in ICC/IF

Immunofluorescence analysis of Phospho-FAK2 / PYK2 (Tyr580) was done on 70% confluent log phase A549 cells treated with 50 ng of PDGF for 10 minutes. The cells were 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-FAK2 / PYK2 (Tyr580) Rabbit Polyclonal Antibody (Product # 44-636G) 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) 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 membranous localization. Panel e is untreated cell with no signal. Panel f is a no primary antibody control. The images were captured at 60X magnification.



Phospho-PYK2 (Tyr579, Tyr580) Antibody (44-636G) in IHC (P)

Immunohistochemistry analysis of Phospho-Pyk2 (pYpY579/580) showing staining in the cytoplasm and nucleus of paraffin-embedded human spleen tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Phospho-Pyk2 (pYpY579/580) polyclonal antibody (Product # 44-636G) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

View more figures on thermofisher.com

□8 References

Western Blot (5)

Cardiovascular research

Acidic environments trigger intracellular H+-sensing FAK proteins to rebalance sarcolemmal acid-base transporters and auto-regulate cardiomyocyte pH.

"Published figure using Phospho-PYK2 (Tyr579, Tyr580) polyclonal antibody (Product # 44-636G) in Western Blot"

Authors: Wilson AD,Richards MA,Curtis MK,Gunadasa-Rohling M,Monterisi S,Loonat AA,Miller JJ,Ball V,Lewis A,Tyler DJ,Moshnikova A,Andreev OA,Reshetnyak YK,Carr C,Swietach P

Year 2022

Species Rat

Dilution 1:1000

Cancers

Microglial Cytokines Induce Invasiveness and Proliferation of Human Glioblastoma through Pyk2 and FAK Activation.

"Published figure using Phospho-PYK2 (Tyr579, Tyr580) polyclonal antibody (Product # 44-636G) in Western Blot" Authors: Nuñez RE,Del Valle MM,Ortiz K,Almodovar L,Kucheryavykh L

Year 2021

View more WB references on thermofisher.com

Immunohistochemistry (1)

PloS one

Microglia Activate Migration of Glioma Cells through a Pyk2 Intracellular Pathway.

"Published figure using Phospho-PYK2 (Tyr579, Tyr580) polyclonal antibody (Product # 44-636G) in Immunofluorescence"

Authors: Rolón-Reyes K,Kucheryavykh YV,Cubano LA,Inyushin M,Skatchkov SN,Eaton MJ,Harrison JK,Kucheryavykh LY

Year 2016

Species Mouse

Dilution 1:1000

Immunoprecipitation (1)

Current protocols in cell biology

Analyzing FAK and Pyk2 in early integrin signaling events.

Authors: Bernard-Trifilo JA,Lim ST,Hou S,Schlaepfer DD,Ilic D

Year 2006

Species Mouse

More applications with references on thermofisher.com

Misc (1)

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