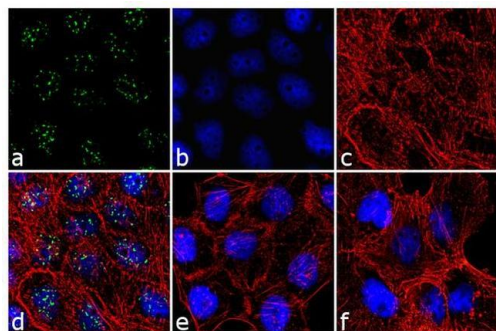


Phospho-PPP1R2 (Thr72) Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from the region of human Inhibitor-2 that contains threonine 72. This sequence is conserved in rabbit, dog, zebrafish, chimpanzee, cow, and chicken.
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_2533586

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
Immunohistochemistry (IHC)	Assay-dependent	-
Immunocytochemistry (ICC/IF)	1:250	1 Publication

Product Images For Phospho-PPP1R2 (Thr72) Polyclonal Antibody

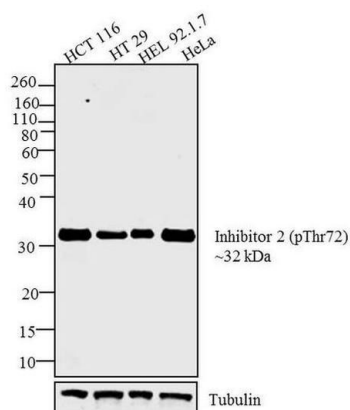


Phospho-PPP1R2 (Thr72) Antibody (44-1160G)

Modulation of expression of target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of Phospho-PPP1R2 (Thr72) using Phospho-PPP1R2 (Thr72) Rabbit Polyclonal Antibody (Product # 44-1160G) shows nuclear localization of Phospho-PPP1R2 (Thr72) in A431 cells treated with Nocodazole. {TM}

Phospho-PPP1R2 (Thr72) Antibody (44-1160G) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HCT 116 (Lane 1), HT 29 (lane 2), HEL 92.1.7 (lane 3), and HeLa (Lane 4). The blots were probed with Anti-Phospho-Inhibitor-2 pThr72 Rabbit Polyclonal Antibody (Product # 44-1160G, 1 in 1000 dilution) and detected by chemiluminescence Goat Anti-Rabbit IgG Secondary Antibody, HRP conjugate (Product # G-21234, 1:5000 dilution). A 32 kDa band corresponding to Phospho-Inhibitor-2 pThr72 was observed across cell lines tested. Difference of molecular weight observed could be due to hyper phosphorylation. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0301BOX), 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 iBlot® 2 Dry Blotting System (Product # IB21001). 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).



Phospho-PPP1R2 (Thr72) Antibody (44-1160G) in ICC/IF

Immunofluorescence analysis of Phospho-Inhibitor-2 pThr72 was done on 70% confluent log phase A431 cells treated with 3µM of Nocodazole for 24 hours. 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-Inhibitor-2 pThr72 Rabbit Polyclonal Antibody (Product # 44-1160G) 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 Rhodamine Phalloidin (Product # R415, 1:300). Panel d is a merged image showing punctuated nuclear localization. Panel e is untreated cell with no signal. Panel f is a no primary antibody control. The images were captured at 60X magnification.

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Immunocytochemistry (1)

BMC molecular and cell biology

Year
2020

The PP1 regulator PPP1R2 coordinately regulates AURKA and PP1 to control centrosome phosphorylation and maintain central spindle architecture.

"Published figure using Phospho-PPP1R2 (Thr72) polyclonal antibody (Product # 44-1160G) in Immunocytochemistry"

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