

# RAC1 Polyclonal Antibody

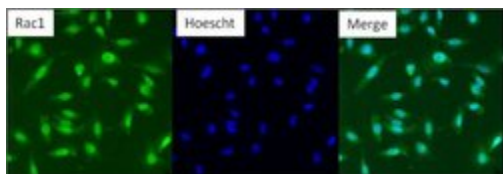
Product Details	
Size	100 µg
Species	Human, Mouse
Published Species	Rat, Mouse, Human
Expression System	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant Full-length Human Protein
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA, 30% glycerol
Contains	0.05% sodium azide
Storage Conditions	-20°C
RRID	AB_2539856

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	1:20-1:100	-
Immunofluorescence (IF)	1:20-1:100	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:50	-
Western Blot (WB)	1:1000	8 Publications
Immunohistochemistry (IHC)	-	1 Publication

## Product Images For RAC1 Polyclonal Antibody

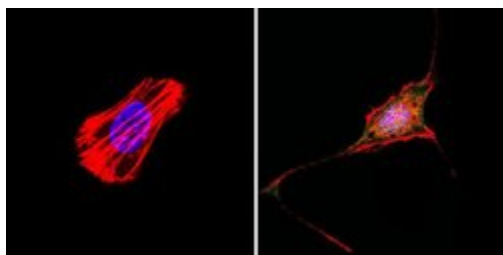
### RAC1 Antibody (PA1-091) in IF

Immunofluorescent analysis of Rac1 (green) in untreated HeLa cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature. Cells were then blocked with 5% normal goat serum (Product # 31873) for 15 minutes at room temperature. Cells were probed with a rabbit polyclonal antibody recognizing Rac1 (Product # PA1-091), at a dilution of 1:100 for at least 1 hour at room temperature. Cells were then washed with PBS and incubated with DyLight 488 goat-anti-rabbit secondary antibody at a dilution of 1:400 for 30 minutes at room temperature. Nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ArrayScan at 20X magnification.



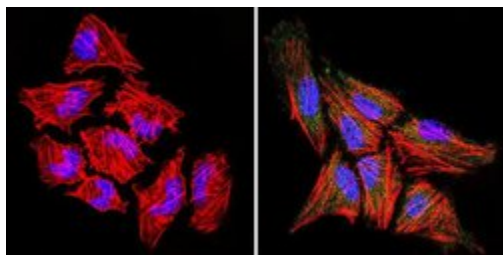
### RAC1 Antibody (PA1-091) in IF

Immunofluorescent analysis of Rac1 (green) in murine cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes at room temperature and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Rac1 polyclonal antibody (Product # PA1-091) at a dilution of 1:20 and incubated overnight in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody for 45 minutes at room temperature in the dark. F-actin (red) was stained with a fluorescent phalloidin and nuclei (blue) were stained with DAPI. Images were taken at a 60X magnification.



### RAC1 Antibody (PA1-091) in IF

Immunofluorescent analysis of Rac1 (green) in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes at room temperature and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Rac1 polyclonal antibody (Product # PA1-091) at a dilution of 1:100 and incubated overnight in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody for 45 minutes at room temperature in the dark. F-actin (red) was stained with a fluorescent phalloidin and nuclei (blue) were stained with DAPI. Images were taken at a 60X magnification.



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## 10 References

### Western Blot (8)

International journal of molecular medicine

#### Cannabinoid receptor 2 agonist attenuates bloodbrain barrier damage in a rat model of intracerebral hemorrhage by activating the Rac1 pathway.

"PA1-091 was used in Western Blotting to study the effect of cannabinoid receptor 2 agonist (CNR2) JWH133 on blood brain barrier integrity and its underlying mechanism."

Authors: Wang Z,Li Y,Cai S,Li R,Cao G

**Species**  
Rat

**Dilution**  
1:1000

**Year**  
2018

Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association

#### Di-n-butyl phthalate exposure negatively influences structural and functional neuroplasticity via Rho-GTPase signaling pathways.

"PA1091 was used in western blot to develop and examine a mouse model of chronic di-n-butyl phthalate exposure"

Authors: Ding Y,Lu L,Xuan C,Han J,Ye S,Cao T,Chen W,Li A,Zhang X

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2017

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

### Immunofluorescence (1)

The Journal of clinical investigation

#### AKT-mediated stabilization of histone methyltransferase WHSC1 promotes prostate cancer metastasis.

"PA1091 was used in immunohistochemistry to demonstrate that WHSC1 drives indolent PTEN-null tumors to become metastatic prostate cancer"

Authors: Li N,Xue W,Yuan H,Dong B,Ding Y,Liu Y,Jiang M,Kan S,Sun T,Ren J,Pan Q,Li X,Zhang P,Hu G,Wang Y, Wang X,Li Q,Qin J

**Species**  
Mouse  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2017

### Immunohistochemistry (1)

The Journal of clinical investigation

#### AKT-mediated stabilization of histone methyltransferase WHSC1 promotes prostate cancer metastasis.

"PA1091 was used in immunohistochemistry to demonstrate that WHSC1 drives indolent PTEN-null tumors to become metastatic prostate cancer"

Authors: Li N,Xue W,Yuan H,Dong B,Ding Y,Liu Y,Jiang M,Kan S,Sun T,Ren J,Pan Q,Li X,Zhang P,Hu G,Wang Y, Wang X,Li Q,Qin J

**Species**  
Mouse  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2017

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