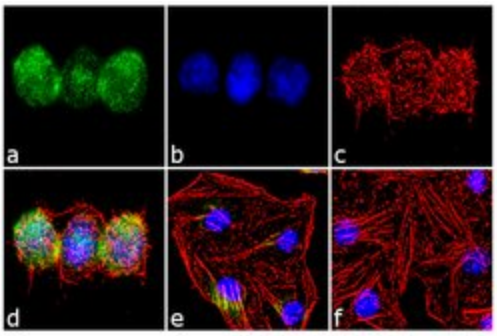
Aurora C Polyclonal Antibody

Product Details	
Size	100 µg
Species	Human, Mouse
Published Species	Human, Mouse
Expression System	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide derived from an internal region of the human Aurora C (Serine/threonine-protein kinase 13, Serine/threonine kinase AIE2, Aurora/IPL1/Eg2 protein 2, Aurora/IPL1-related kinase 3) protein.
Form	Liquid
Concentration	0.25 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage Conditions	-20°C
RRID	AB_2533392

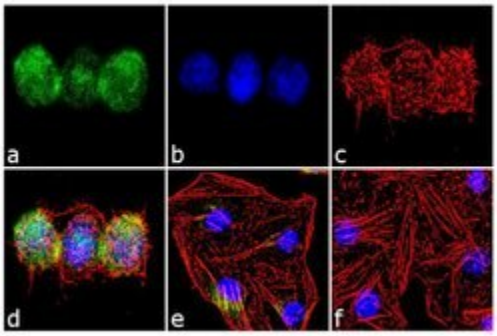
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	2-3 µg/mL	-
Immunofluorescence (IF)	2-3 µg/mL	1 Publication
Western Blot (WB)	1-2 µg/mL	2 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunoprecipitation (IP)	-	2 Publications

Advanced Verification Data

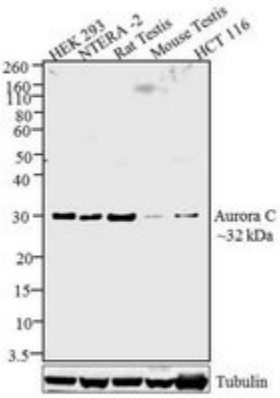


Aurora C Antibody (38-9400)
Modulation of expression of target protein by cell treatment to demonstrate antibody specificity. Immunofluorescence analysis of Aurora C using anti Aurora C polyclonal antibody (Product # 38-9400) shows increased expression of Aurora C in HeLa cells treated with Nocodazole. Cell treatment validation info.

Product Images For Aurora C Polyclonal Antibody



Aurora C Antibody (38-9400) in IF
Immunofluorescence analysis of Aurora C was performed using 70% confluent log phase HeLa cells treated with 3 uM 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 2% BSA for 1 hour at room temperature. The cells were labeled with Aurora C Rabbit Polyclonal Antibody (Product # 38-9400) at 2 µg /mL 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) 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 represents the merged image showing nuclear localization. Panel e shows untreated cells with less signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



Aurora C Antibody (38-9400) in WB
Western blot analysis was performed on whole cell, tissue extracts (30 µg lysate) of HEK 293 (Lane 1), NTERA- 2 (Lane 2), Rat Testis (Lane 3), Mouse Testis (Lane 4), and HCT 116 (Lane 5). The blots were probed with Anti-Aurora C Rabbit Polyclonal Antibody (Product # 38-9400, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Secondary Antibody, HRP conjugate (Product # G-21234, 1:5000 dilution). A ~ 32 kDa band corresponding to Aurora C was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0302BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with 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).

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6 References

Immunoprecipitation (2)

PloS one

Aurora-C Interactions with Survivin and INCENP Reveal Shared and Distinct Features Compared with Aurora-B Chromosome Passenger Protein Complex.

"38-9400 was used in immunoprecipitation and western blot to characterize shared and distinct features compared with aurora-B chromosome passenger protein complex by Aurora-C interactions with INCENP and survivin"

Authors: Sasai K,Katayama H,Hawke DH,Sen S

Species
Not Applicable

Dilution
Not Cited

Year
2017

Molecular biology of the cell

Aurora-B regulates RNA methyltransferase NSUN2.

Authors: Sakita-Suto S,Kanda A,Suzuki F,Sato S,Takata T,Tatsuka M

Species
Human

Dilution
Not Cited

Year
2007

Immunofluorescence (1)

PloS one

Overexpression of active Aurora-C kinase results in cell transformation and tumour formation.

"38-9400 was used in western blot to study the contribution of Aurora-A , -B, and -C to cancer."

Authors: Khan J,Ezan F,Crémet JY,Fautrel A,Gilot D,Lambert M,Benaud C,Troadec MB,Prigent C

Species
Human
Mouse

Dilution
1:250
1:250

Year
2012

Western Blot (2)

PloS one

Overexpression of active Aurora-C kinase results in cell transformation and tumour formation.

"38-9400 was used in western blot to study the contribution of Aurora-A , -B, and -C to cancer."

Authors: Khan J,Ezan F,Crémet JY,Fautrel A,Gilot D,Lambert M,Benaud C,Troadec MB,Prigent C

Species
Human
Mouse

Dilution
1:250
1:250

Year
2012

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IHC (1)