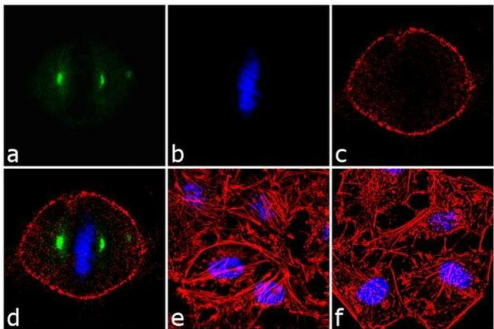


Phospho-Aurora A (Thr288) Polyclonal Antibody

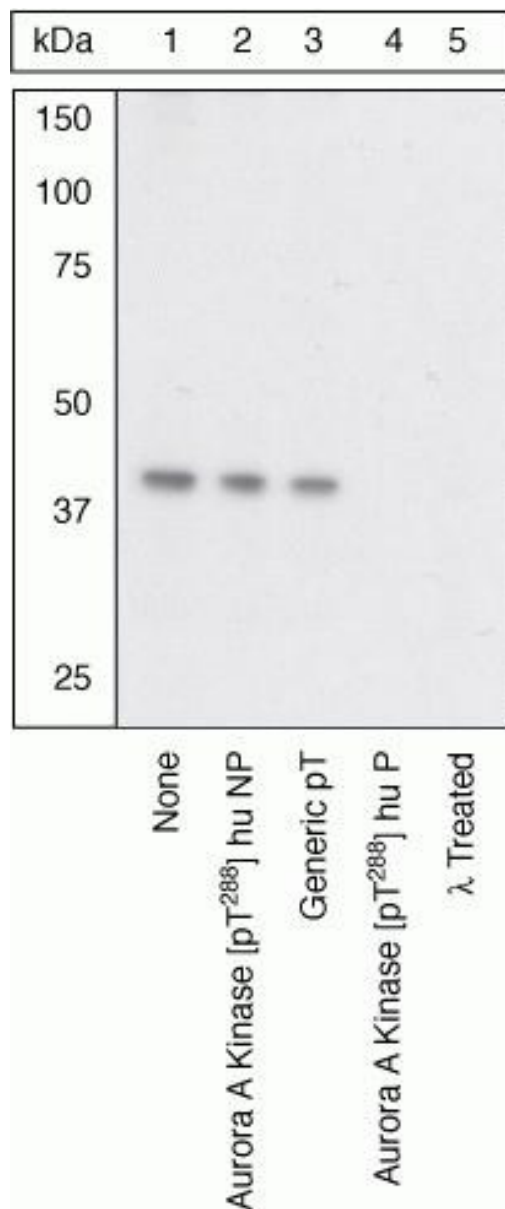
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from the region of human Aurora A Kinase that contains threonine 288. The sequence is highly conserved in mouse and rat.
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	Dulbecco's PBS, pH 7.3, with 50% glycerol, 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2533590

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:100	-
Immunocytochemistry (ICC/IF)	1:250	1 Publication

Product Images For Phospho-Aurora A (Thr288) Polyclonal Antibody



Phospho-Aurora A (Thr288) Antibody (44-1210G)
Modulation of expression of target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of Phospho-Aurora A (Thr288) using Phospho-mTOR (Ser2448) Rabbit Polyclonal Antibody (Product # 44-1210G) shows spindle localization of Phospho-Aurora A (Thr288) in HeLa cells treated with Nocodazole. {TM}

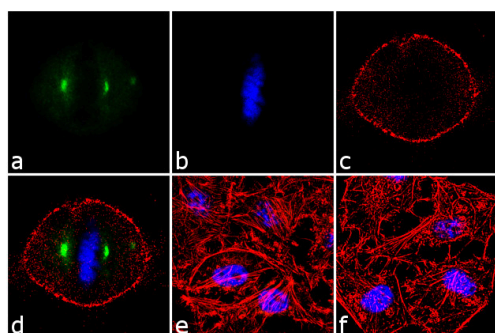


Phospho-Aurora A (Thr288) Antibody (44-1210G) in WB

Peptide Competition. Extracts of serum-starved NIH3T3 cells were resolved by SDS-PAGE on a 10% Tris-glycine gel and transferred to PVDF. The membrane was blocked with a 3% BSA-TBST buffer for one hour at room temperature, and either left untreated (1-4) or treated with lambda phosphatase (5), then incubated with the Aurora A Kinase (pT288) antibody for two hours at room temperature in 3% BSA-TBST buffer, following prior incubation with: no peptide (1, 5), the non-phosphopeptide corresponding to the phosphopeptide immunogen (2), a generic phosphothreonine-containing peptide (3), or the phosphopeptide immunogen (4). After washing, the membrane was incubated with goat F (ab')₂ anti-rabbit IgG HRP conjugate (Product # ALI4404) and signals were detected using the Pierce SuperSignal™ method. The data show that only the phosphopeptide corresponding to Aurora A Kinase (pT288) blocks the antibody signal, and that phosphatase treatment eliminates the signal, thereby demonstrating the specificity of the antibody.

Phospho-Aurora A (Thr288) Antibody (44-1210G) in ICC/IF

Immunofluorescence analysis of Phospho-Aurora A pThr288 was done on 70% confluent log phase HeLa cells treated with 3uM Nocodazole for 24hrs. 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-Aurora A pThr288 Rabbit Polyclonal Antibody (Product # 44-1210G) 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 spindle 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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Immunohistochemistry (1)

International journal of molecular sciences	Year 2022
Novel Aurora A Kinase Inhibitor Fangchinoline Enhances Cisplatin-DNA Adducts and Cisplatin Therapeutic Efficacy in OVCAR-3 Ovarian Cancer Cells-Derived Xenograft Model.	Species Mouse
"44-1210G was used in Immunohistochemistry to show that fangchinoline significantly enhanced cisplatin therapeutic effects in OVCAR-3 ovarian cancer-bearing mice."	Dilution 1:100
Authors: Winardi D,Chu PY,Chen GY,Wang K,Hsu WY,Hsieh CL,Chen YH,Wu YC,Yang JC	

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-Aurora A (Thr288) polyclonal antibody (Product # 44-1210G) in Immunocytochemistry"	
Authors: Bresch AM,Yerich N,Wang R,Sperry AO	

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