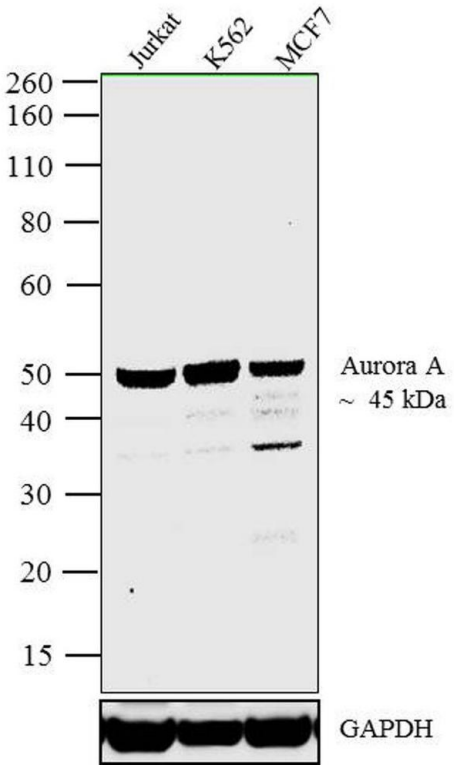
Aurora A Monoclonal Antibody (35C1)

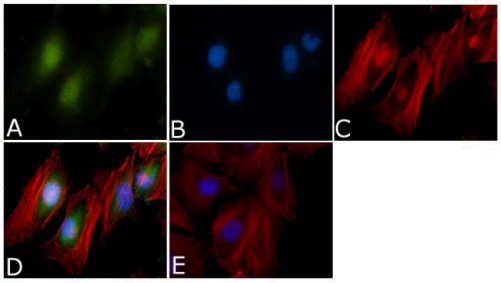
Product Details	
Size	100 µg
Species Reactivity	Bovine, Dog, Horse, Human, Mouse, Non-human primate, Pig, Rat
Published Species	Hamster, Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	35C1
Conjugate	Unconjugated
Immunogen	Recombinant protein derived from the full length of human Aurora A Kinase protein
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2533839

Applications	Tested Dilution	Publications
Western Blot (WB)	1-3 µg/mL	5 Publications
Immunocytochemistry (ICC/IF)	1-2 µg/mL	1 Publication
Immunoprecipitation (IP)	5 µg	-
Miscellaneous PubMed (Misc)	-	1 Publication

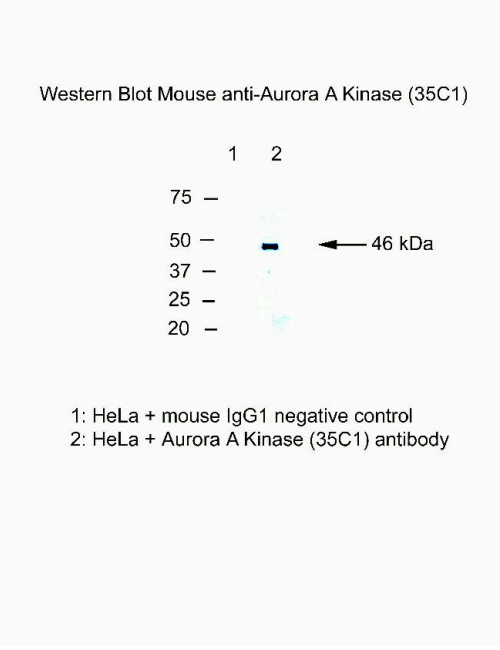
Product Images For Aurora A Monoclonal Antibody (35C1)



Aurora A Antibody (45-8900) in WB
Western blot analysis of Aurora A was performed by loading 30 µg of Jurkat (lane1), K562 (lane2) and MCF7 (lane3) cell lysate using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (LC5800), and iBlot® Dry Blotting System (IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5 % skim milk for 1 hour at room temperature. Aurora A was detected at ~ 45 kDa using Aurora A Mouse Monoclonal Antibody (Product # 45-8900) at 1-3 µg/mL in 5 % skim milk at 4°C overnight on a rocking platform. Goat Anti-Mouse IgG - HRP Secondary Antibody (Product # 62-6520) 1:4000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



Aurora A Antibody (45-8900) in ICC/IF
Immunofluorescent analysis of Aurora A Antibody (35C1)was done on 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with Aurora A Antibody (35C1) (Product # 45-8900) at 1µg/mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488 Rabbit Anti-Mouse IgG Secondary Antibody (Product # A-11059) at a dilution of 1: 400 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 594 Phalloidin (Product # A12381). Panel d is a merged image showing cytoplasmic and Nuclear localization. Panel e is a no primary antibody control. The images were captured at 40X magnification.



Aurora A Antibody (45-8900) in WB
Western blot analysis of Aurora A using a monoclonal antibody (Product # 45-8900).

View more figures on thermofisher.cn

7 References

Western Blot (5)

Cancers

The Aurora Kinase Inhibitor TAK901 Inhibits Glioblastoma Growth by Blocking SREBP1-Mediated Lipid Metabolism.

"45-8900 was used in Western Blotting to provide evidence that TAK901 inhibits GBM growth by suppressing SREBP1-mediated lipid metabolism."

Authors: Zhan X,Qiu R,He Y,Zhao Z,Huang M,Liu Q,Zhi F,Long W

Year 2022

Species Mouse

---

iScience

Myocardin-related transcription factor and serum response factor regulate cilium turnover by both transcriptional and local mechanisms.

"45-8900 was used in Western Blot to show that (1) both MRTF and SRF are indispensable for serum-induced PC resorption, and (2) they act via both transcriptional and local mechanisms."

Authors: Speight P,Rozycki M,Venugopal S,Szászi K,Kofler M,Kapus A

Year 2021

Species Human

Dilution 1:1000

View more WB references on thermofisher.cn

Immunocytochemistry (1)

Journal of cell science

A novel mitosis-specific Cep215 domain interacts with Cep192 and phosphorylated Aurora A for organization of spindle poles.

"45-8900 was used in Immunocytochemistry to conclude that Cep215 plays a role in maintaining the structural integrity of the spindle pole by providing a platform for the molecules involved in centrosome maturation."

Authors: Kuriyama R,Fisher CR

Year 2020

Species Hamster

Miscellaneous PubMed (1)

eLife

Aurora-A mediated histone H3 phosphorylation of threonine 118 controls condensin I and cohesin occupancy in mitosis.

"45-8900 was used in western blot to examine how histone H3 threonine 118 alters chromosome structure"

Authors: Wike CL,Graves HK,Hawkins R,Gibson MD,Ferdinand MB,Zhang T,Chen Z,Hudson DF,Ottesen JJ,Poirier MG, Schumacher J,Tyler JK

Year 2016

Species Human

More applications with references on thermofisher.cn