

Product Datasheet

PLK4 Antibody NB100-894

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NB100-894

PLK4 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	109 kDa
Product Description	
Host	Goat
Gene ID	10733
Gene Symbol	PLK4
Species	Human
Immunogen	Peptide with sequence ATCIGEKIEDFKVGN corresponding to N-Terminus according to NP_055079.3.
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Peptide ELISA
Recommended Dilutions	Western Blot 1 - 3 ug/ml, Flow Cytometry 10ug/ml, Immunocytochemistry/ Immunofluorescence 10ug/ml, Peptide ELISA Detection limit 1:32000
Application Notes	WB: Approx. 110 kDa band observed in human colon lysates (calculated MW of 109 kDa band according to NP_055079.3).

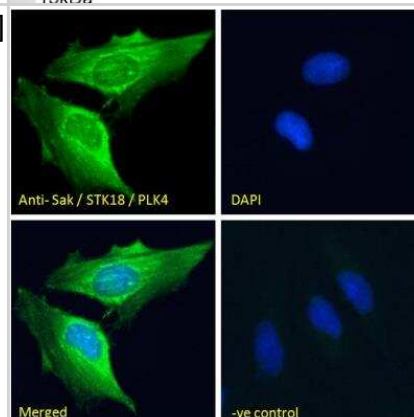


Images

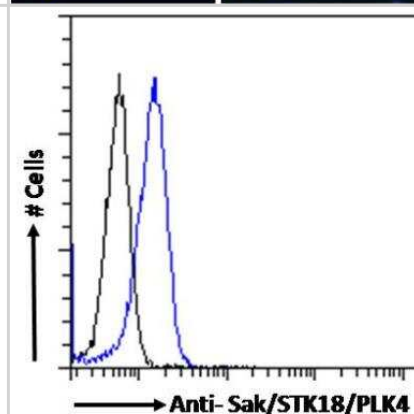
Western Blot: PLK4 Antibody [NB100-894] - Analysis of PLK4 in human Colon lysate (35ug protein in RIPA buffer) using NB100-894 at 2 ug/ml. Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

250kDa
150kDa
100kDa
75kDa
50kDa
37kDa
25kDa
20kDa
15kDa

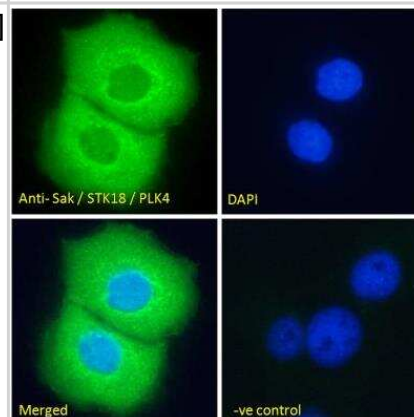
Immunocytochemistry/Immunofluorescence: PLK4 Antibody [NB100-894]
- Analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



Flow Cytometry: PLK4 Antibody [NB100-894] - Analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



Immunocytochemistry/Immunofluorescence: PLK4 Antibody [NB100-894]
- Analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



Publications

Guerber L, Vuidel A, Liao Y et al. UBAP2L-dependent coupling of PLK1 localization and stability during mitosis EMBO reports 2023-06-05 [PMID: 37039032] (WB, Human)

So C, Seres K. B, et al. A liquid-like spindle domain promotes acentrosomal spindle assembly in mammalian oocytes. Science 2019-06-28 [PMID: 31249032] (ICC/IF, Sheep, Bovine, Mouse, Porcine)

Kazazian K, Haffani Y, Ng D et al. FAM46C/TENT5C functions as a tumor suppressor through inhibition of Plk4 activity Commun Biol 2020-08-17 [PMID: 32807875] (ICC/IF, Human)

Hudson JW, Chen L, Fode C et al. Sak kinase gene structure and transcriptional regulation. Gene 2000-01-04 [PMID: 10607900]

Rizki, A et al. Polo-like Kinase 1 Is Involved in Invasion through Extracellular Matrix. Cancer Res67:11106-11110. 2007-01-01 [PMID: 18056432]





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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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