

PLK1 Polyclonal Antibody | anti-PLK1 antibody

Anti-PLK1 Antibody

CATALOG # AAA46506	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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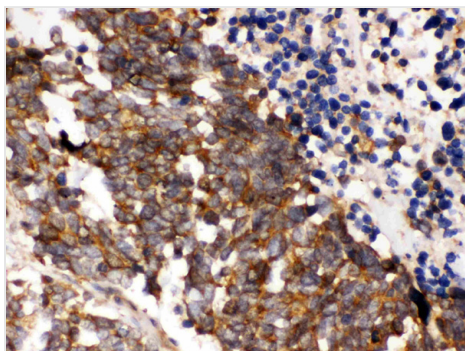
PRODUCT SYNONYMS

PLK1; Polyclonal Antibody; Anti-PLK1 Antibody; Serine/threonine-protein kinase PLK1; Cell cycle regulated protein kinase; PLK 1; PLK; PLK-1; plk1; PLK1_HUMAN; Polo like kinase 1; Polo-like kinase 1; Serine/threonine protein kinase 13; Serine/threonine protein kinase PLK1; Serine/threonine-protein kinase 13; STPK 13; STPK13; polo-like kinase 1; anti-PLK1 antibody

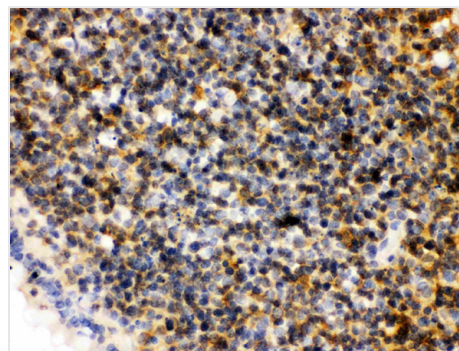
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	603
Applicable Applications for anti-PLK1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human PLK1 recombinant protein (Position: K86-N430). Human PLK1 shares 95.4% and 96.2% amino acid (aa) sequence identity with mouse and rat PLK1, respectively.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

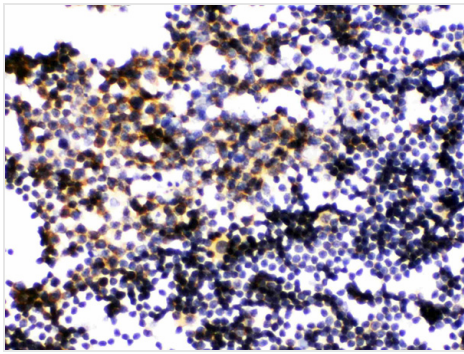
IMAGES



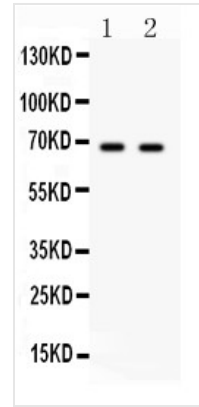
IHC (Immunohistochemistry)
Anti- PLK1 Picoband antibody, AAA46506,IHC(P)IHC(P): Human Lung Cancer Tissue



IHC (Immunohistochemistry)
Anti- PLK1 Picoband antibody, AAA46506,IHC(P)IHC(P): Rat Lymphaden Tissue



IHC (Immunohistochemistry)
Anti- PLK1 Picoband antibody, AAA46506, IHC(P) IHC(P): Mouse Lymphaden Tissue



WB (Western Blot)
Anti- PLK1 Picoband antibody, AAA46506, Western blotting All lanes: Anti PLK1 (AAA46506) at 0.5ug/ml
Lane 1: HELA Whole Cell Lysate at 40ug
Lane 2: PANC Whole Cell Lysate at 40ug
Predicted bind size: 68KD
Observed bind size: 68KD

ADDITIONAL INFORMATION

Related Product Information for anti-PLK1 antibody	Description: Rabbit IgG polyclonal antibody for Serine/threonine-protein kinase PLK1(PLK1) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: Serine/threonine-protein kinase PLK1, also known as polo-like kinase 1 (PLK-1) or serine/threonine-protein kinase 13(STPK13), is an enzyme that in humans is encoded by the PLK1 (polo-like kinase 1) gene. Plk1 is an early trigger for G2/M transition. It supports the functional maturation of the centrosome in late G2/early prophase and establishment of the bipolar spindle. Also, Plk1 phosphorylates and activates cdc25C, a phosphatase that dephosphorylates and activates the cyclinB/cdc2 complex. Studies have shown that the loss of PLK1 expression can induce pro-apoptotic pathways and inhibit growth. Based on yeast and murine studies of meiosis, human PLK1 may also have a regulatory function in meiosis.
References	1. Holtrich U, Wolf G, Bräuninger A, Karn T, Böhme B, Rübsamen-Waigmann H et al. (March 1994). "Induction and down-regulation of PLK, a human serine/threonine kinase expressed in proliferating cells and tumors". Proc. Natl. Acad. Sci. U.S.A. 91(5): 1736-40. 2. Soung NK, Park JE, Yu LR, Lee KH, Lee JM, Bang JK et al. (April 2009). "Plk1-dependent and -independent roles of an ODF2 splice variant, hCenexin1, at the centrosome of somatic cells". Dev. Cell 16(4): 539-50.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21359873
NCBI GeneID	5347
NCBI Accession #	NP_005021.2
NCBI GenBank Nucleotide #	NM_005030.5
UniProt Accession #	P53350 ; Q15153 ; Q99746
Molecular Weight	68,255 Da
NCBI Official Full Name	serine/threonine-protein kinase PLK1
NCBI Official Synonym Full Names	polo like kinase 1
NCBI Official Symbol	PLK1
NCBI Official Synonym Symbols	PLK; STPK13
NCBI Protein Information	serine/threonine-protein kinase PLK1
UniProt Protein Name	Serine/threonine-protein kinase PLK1
UniProt Gene Name	PLK1

UniProt Synonym Gene Names	PLK; PLK-1; STPK13
UniProt Entry Name	PLK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/plk1-antibody-immunohistochemistry-western-blot-elisa/46506>