Product Datasheet

PLK1 [p Thr210] Antibody - BSA Free
NBP1-78021

Unit Size: 0.1 mg

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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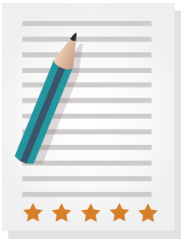


NBP1-78021

PLK1 [p Thr210] Antibody - BSA Free

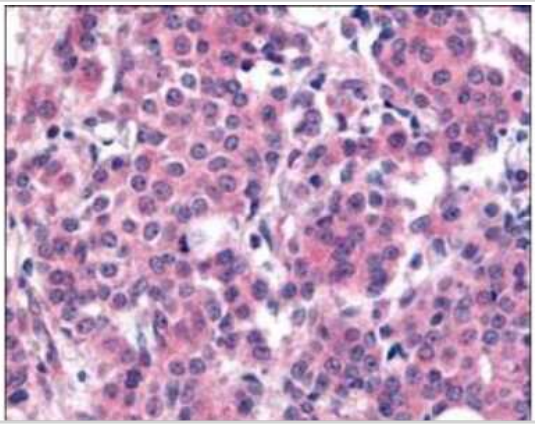
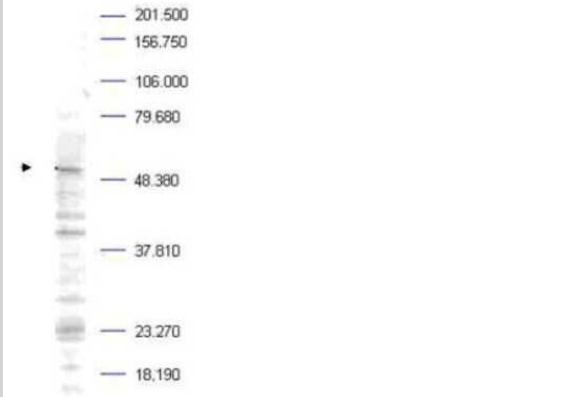
Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

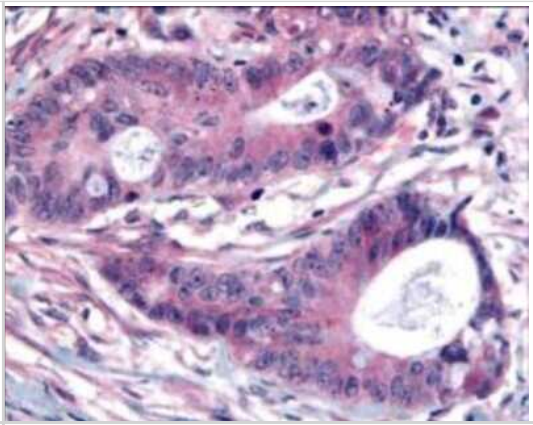
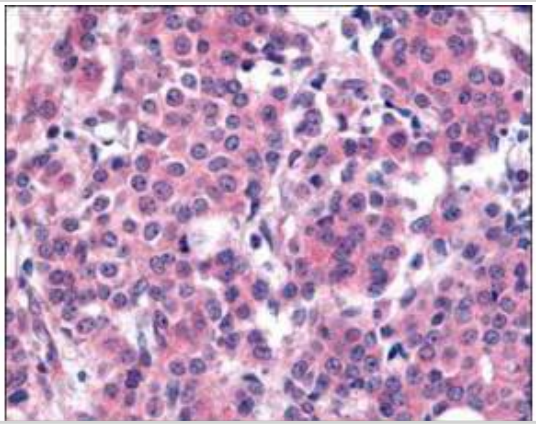
Product Description	
Description	This antibody is directed against human phosphorylated Plk1 protein. This antibody was affinity purified Store vial at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.
Host	Rabbit
Gene ID	5347
Gene Symbol	PLK1
Species	Human, Mouse
Reactivity Notes	BLAST analysis indicates 100 % homology of the immunizing sequence with PLK1 homologues from human, chimpanzee, pig, chicken, mouse, rat, Xenopus, dog, mosquito, zebra fish, starfish, sea urchin and fruit fly. Cross reactivity with PLK1 protein homologues from C.elgans and honeybee may also occur as sequence homology varies by one amino acid residue in this sequence. Reactivity with PLK1 protein from other sources is not known. Minimal reactivity is expected with the non-phosphorylated form of the protein.
Marker	Mitosis Marker
Specificity/Sensitivity	Anti-Polo-like Kinase pT210 Antibody is directed against human phosphorylated Plk1 protein. This antibody is specific for phosphorylated human PLK1 protein at the pT210 residue. BLAST analysis indicates 100 % homology of the immunizing sequence with PLK1 homologues from human, chimpanzee, pig, chicken, mouse, rat, Xenopus, dog, mosquito, zebra fish, starfish, sea urchin and fruit fly. Cross reactivity with PLK1 protein homologues from C.elgans and honeybee may also occur as sequence homology varies by one amino acid residue in this sequence. Reactivity with PLK1 protein from other sources is not known. Minimal reactivity is expected with the non-phosphorylated form of the protein.
Immunogen	PLK1 [p Thr210] Antibody was produced by repeated immunizations with a synthetic phospho peptide corresponding to an internal region near aa 200-225 of Human Polo-like kinase 1 (Plk1) protein. (Uniprot: P53350)

Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin

Recommended Dilutions	Western Blot 1:200-1:2000, ELISA 1:3000-1:12000, Immunohistochemistry 1:200-1:1000, Immunohistochemistry-Paraffin 1:200
Application Notes	This affinity-purified antibody has been tested for use in ELISA, IHC, and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 68 kDa in size corresponding to Plk-1 by western blotting in the appropriate cell lysate or extract. This antibody is positive by IHC on kidney, liver, cancer, thyroid and lymphocyte tissue.

Images

Western Blot: PLK1 [p Thr210] Antibody [NBP1-78021] - Western blot analysis is shown to detect endogenous and recombinant protein present in HeLa cell lysates transfected with various plk-1 mutation constructs. Blots were reacted with anti-Plk-1 pT210 (panel A) and pan reactive anti-Plk-1 (panel B). Transfected cells were treated with 1 uM nocodazole followed by cell collection, lysate preparation, SDS-PAGE and western blotting. Using a 1:1000 dilution, anti-Plk-1 pT210 detects a single band corresponding to endogenous plk-1, but does not detect recombinant forms of the protein presumably because of a lack of phosphorylation in these mutants.	
Immunohistochemistry: PLK1 [p Thr210] Antibody [NBP1-78021] - Used at a 1:200 dilution to detect Plk1 by immunohistochemistry in human breast carcinoma tumor tissue. Tissue was formalin-fixed and paraffin embedded.	
Western Blot: PLK1 [p Thr210] Antibody [NBP1-78021] - Plk-1 pT210 antibody to detect endogenous protein present in a Mouse A20 whole cell lysate (arrowhead). Comparison to a molecular weight marker indicates a band of ~68 kDa corresponding to Plk-1 protein. It is suggested to use a nuclear extract from synchronized cells to greatly increase the abundance of this protein in preparations. The blot was incubated with a 1:500 dilution of the antibody at room temperature followed by detection using standard techniques.	

Immunohistochemistry: PLK1 [p Thr210] Antibody [NBP1-78021] - Used at a 1:200 dilution to detect Plk1 by immunohistochemistry in human colon carcinoma tumor tissue. Tissue was formalin-fixed and paraffin embedded.	
Affinity Purified Plk1 pT210 was used at a 1:200 dilution to detect Plk1 by immunohistochemistry in human breast carcinoma tumor tissue. Tissue was formalin-fixed and paraffin embedded. Personal Communication, Alan Yen, LifeSpanBiosciences, Seattle, WA.	
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Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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NBP2-49074PEP	PLK1 Recombinant Protein Antigen

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