Product Datasheet

PLK1 phospho T210 Antibody (orb345425)

Catalog Number	orb345425
Description	Plk1 (phospho-T210) antibody
Species/Host	Rabbit
Reactivity	Human, Mouse
Conjugation	Unconjugated
Tested Applications	ELISA, IHC, WB
Immunogen	Anti-Polo-like Kinase pT210 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.
Preservatives	0.01% (w/v) Sodium Azide
Form/Appearance	Liquid (sterile filtered)
Concentration	1.0 mg/mL
Storage	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C 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 4° C as an undiluted liquid. Dilute only prior to immediate use.
Note	For research use only
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.
Isotype	IgG

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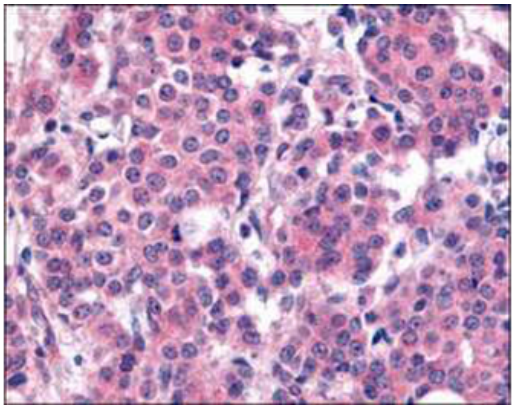
Clonality	Polyclonal
Antibody Type	Primary Antibody
Purity	Anti-Polo-like Kinase pT210 Antibody is directed against human phosphorylated Plk1 protein. This antibody was affinity purified. This antibody is specific for phosphorylated human Plk-1 protein at the pT210 residue. BLAST analysis indicates 100 % homology of the immunizing sequence with Plk-1 homologues from human, chimpanzee, pig, chicken, mouse, rat, Xenopus, dog, mosquito, zebra fish, starfish, sea urchin and fruit fly. Cross reactivity with Plk-1 protein homologues from C.elgans and honeybee may also occur as sequence homology varies by one amino acid residue in this sequence. Reactivity with Plk-1 protein from other sources is not known. Minimal reactivity is expected with the non-phosphorylated form of the protein.
Uniprot ID	**P53350**
NCBI	**21359873**
Dilution Range	ELISA: 1:3,000 - 1:12,000, IHC: 1:200 - 1:1,000, WB: 1:200 - 1:2,000
Expiration Date	12 months from date of receipt.



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.

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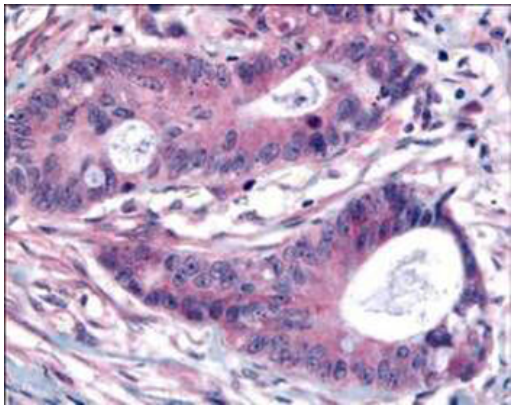
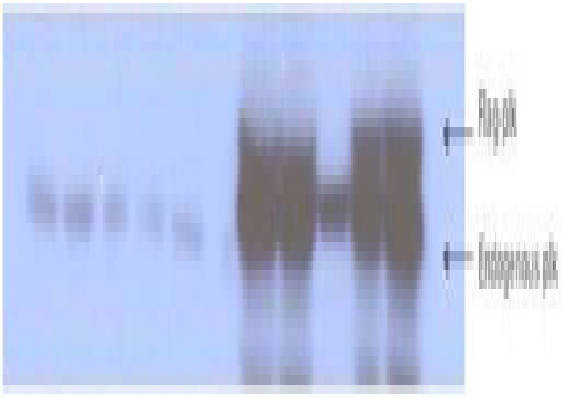
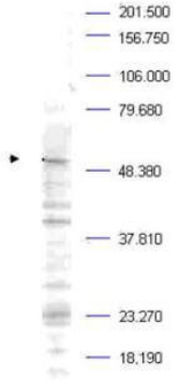


Affinity Purified Plk1 pT210 was used at a 1:200 dilution to detect Plk1 by immunohistochemistry in human colon carcinoma tumor tissue. Tissue was formalin-fixed and paraffin embedded.



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.



Western blot analysis is shown using Biorbyt's Affinity Purified anti-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.

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