

PLK1

Rabbit Anti-Human Polo-Like Kinase 1 Phospho-Thr210 Affinity Purified pAb

Catalog No.	CSI10181 CSI10182	Quantity:	50 µl 200 µl
Alternate Names:	PLK, STPK13, cell cycle regulated protein kinase, polo (Drosophila)-like kinase, polo like kinase, polo-like kinase		
Description:	<p>PLK-1 (polo-like kinase 1) is a member of the serine/threonine protein kinase family, cdc5/polo subfamily. Highly homologous to polo-like kinase (Drosophila), PLK-1 contains two polo box domains with a predicted molecular weight of 68 kD. This nuclear protein is highly expressed in placenta and colon and has been shown to regulate cdc2/cyclin B through phosphorylation and activation of cdc25c phosphatase. PLK-1 may also be required for cell division; depletion of PLK-1 results in apoptosis. PLK-1 is upregulated by growth stimulating agents and is regulated by cell cycle position (highest in G2/M phase, declining to nearly undetectable levels after mitosis and throughout G1). PLK-1 is modified by phosphorylation (Thr210 is the major phosphorylation site in activated PLK-1 from mitotic cells) and has been shown to interact with nuclear distribution gene C. The Poly6186 antibody recognizes human phosphorylated PLK-1 (Thr210) and has been shown to be useful for Western blotting. The Poly6186 antibody cross-reacts with an unknown kinase in non-mitotic cells. To increase specificity, it is recommended that the Poly6186 antibody be used for Western blotting after immunoprecipitation with a pan-specific PLK-1 antibody (clone 3F8).</p>		
Gene ID:	5347		
Host:	Rabbit		
Immunogen:	Modified peptide		
Isotype:	Rabbit IgG		
Clone:	Poly6186		
Formulation:	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
Purification:	The antibody was purified by antigen-affinity chromatography.		
Reactivity:	Human		
Applications:	Western Blot, IF		
Recommended Usage:			

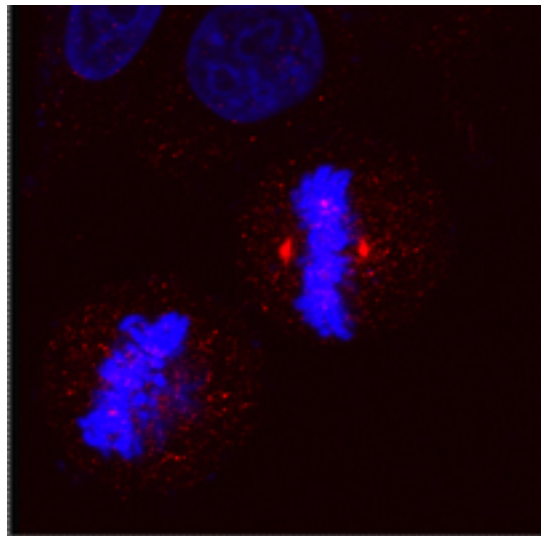
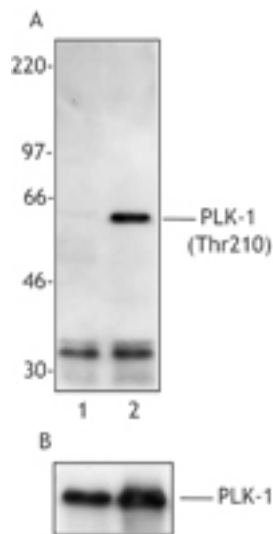


Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 µl per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

Storage & Stability: Upon receipt, store frozen at -20°C. **Avoid repeated freeze-thaw cycles.**

Panel A. Extracts from untreated Hela cells (Lane 1) or overnight nocodazole-treated Hela cells (Lane 2) were immunoprecipitated with the pan-PLK monoclonal antibody (clone 3F8), and then western blotted with Poly6186 against phosphorylated PLK-1 (Thr210). Proteins were visualized using a donkey anti-rabbit secondary conjugated to HRP and a chemiluminescence detection system. Panel B. Extracts from untreated Hela cells (Lane 1) or overnight nocodazole-treated Hela cells (Lane 2) in Panel A were stripped and re-probed with a polyclonal antibody against pan-PLK-1 (Poly6185) to document equivalent loading of the PLK-1 protein.

Immunofluorescent microscope analysis of nocodazole treated Hela cells (10µM for overnight), using PLK-1 Phosphorylated (Thr210) polyclonal antibody (red). Nuclei were stain with DAPI (blue).



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