

## **Product datasheet for TA328019**

## PLK1 Mouse Monoclonal Antibody [Clone ID: 3F8]

## **Product data:**

**Product Type:** Primary Antibodies

Clone Name: 3F8
Applications: WB

Recommended Dilution: WB, IP, IF

Reactivity: Human, Mouse

**Host:** Mouse

**Isotype:** IgG1, kappa **Clonality:** Monoclonal

Immunogen: Amino Acid: 300-603 of human PLK-1

**Formulation:** This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium

azide at 0.5 mg/ml.

**Concentration:** lot specific

**Purification:** The antibody was purified by affinity chromatography.

**Conjugation:** Unconjugated

**Storage:** Store at -20°C as received.

**Stability:** Stable for 12 months from date of receipt.

Predicted Protein Size: 68 kD

**Gene Name:** polo like kinase 1

Database Link: NP 005021

Entrez Gene 18817 MouseEntrez Gene 5347 Human

P53350



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Background:

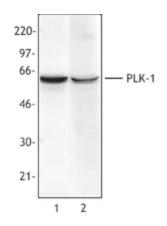
PLK-1 (polo-like kinase 1) is a member of te serine/threonine protein kinase family, cdc5/polo subfamily. Highly homologous to polo-like kinase (Drosophila), PLK-1 contains two polo box domains with a predicted molecular weight of 68 kD. This nuclear protein is highly expressed in placenta and colon 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 3F8 monoclonal antibody recognizes human and mouse PLK-1 and has been shown to be useful for Western blotting.

Synonyms: PLK; STPK13

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation

## **Product images:**



Hela cell extract (Lane 1) or NIH3T3 cell extract (Lane 2) was resolved by electrophoresis, transferred to nitrocellulose and probed with monoclonal anti-Plk-1 (Clone 3F8) antibody. Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.