

Product datasheet for **TA336437**

PLK1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, WB
Recommended Dilution:	Immunohistochemistry, Western Blot: 1:1000-1:2000, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence
Reactivity:	Human, Mouse, Rat, Bovine, Canine, Porcine, Primate
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A portion of amino acids 100-200 of human PLK1 was used as the immunogen.
Formulation:	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Whole antisera
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	polo like kinase 1
Database Link:	NP_005021 Entrez Gene 18817 Mouse Entrez Gene 25515 Rat Entrez Gene 5347 Human P53350

Background: Polo related kinase (PLK), a serine/threonine kinase is strongly correlated with the mitotic activity of cells. PLK is present in all tissues during mouse embryonic development, where as in adults expression is limited to thymus and ovaries. It has been observed that tumors of various origin (lung, colon, stomach, smooth muscle, and esophagus as well as non-Hodgkin lymphomas) express high levels of PLK transcripts with absent of transcripts in normal surrounding tissues. Only normal colon and placenta, which are known to be mitotically active express PLK. PLK expression is restricted to proliferating cells. In mammalian cells, three PLKs (PLK1, PLK2/Snk, PLK3/Fnk) have been identified. PLK1 is the most studied isoform. The known substrates of PLK1 include several proteins involved in mitosis such as Cdc25C, APC, and cyclin B. PLK1 promotes mitosis through the phosphorylation and activation of Cdc25C, which regulates the tyrosine dephosphorylation of CDKs.

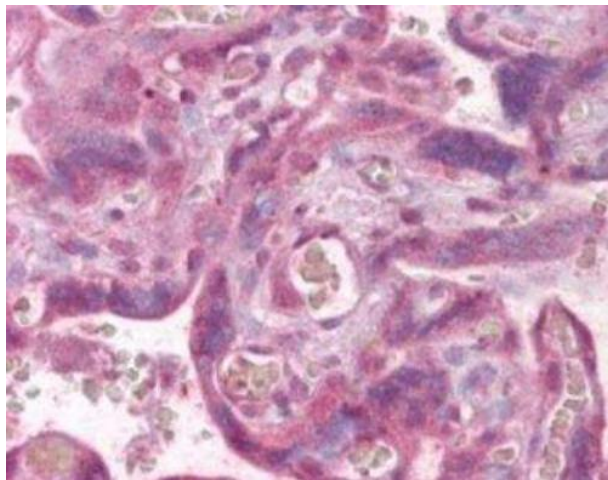


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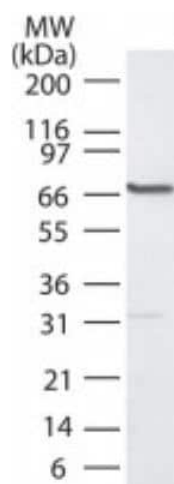
Synonyms: PLK; STPK13

Protein Families: Druggable Genome, Protein Kinase

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

Product images:

Immunohistochemistry-Paraffin: PLK1 Antibody TA336437 - Analysis of human placenta using PLK1 antibody at 1:100.



Western Blot: PLK1 Antibody TA336437 - Analysis of HCT-116 lysate using PLK1 antibody at 1:2000.