

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Product datasheet for TA500383BM

## PLK1 Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI3F12]

#### **Product data:**

Clone Name:OTI3F12Applications:FC /P. WBAccommended DitusiBC /B. QUO, ILC 11:50, FLOW 11:00, IP 2ug/500ulReactivity:Wann, Mouse, RatHost:Mouse, RatIsotype:IgG1Clonality:WanoclonalConality:WanoclonalFurmulation:PS (PH 7.3) containing 1% BSA, 50% glycerol.Formulation:On Sing/IPurification:Our furtification:Storage:Scale for Canceroided Canceroi	Product Type:	Primary Antibodies
Accommended DilutionVB 1:2000, IHC 1:150, FLOW 1:100, IP 2ug/500ulReactivity:Human, Mouse, RatHost:MouseIsotype:IgG1Clonality:MonoclonalImmunogen:Full-length protein expressed in 293T cell transfected with human PLK1 expression vectorFormulation:PBS (pH 7.3) containing 1% BSA, 50% glycerol.Concentration:0.5 mg/mlPurification:Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)Storage:Stole for 12 months from date of receipt.Predicted Protein Size68.1 kDaGene Name:NP 005021 Pris350Background:Serine/Hneune-protein kinase that performs several important functions stroughout M pisaso f the cell cycle, including the regulation of centrosome maturation and spindle assembly, the removal of cohesins from chromosome arms, the inactivation of APC/C inhibitors, and the regulation of mitotic exit and cytokinesisSynonyms:PLK; STPK13	Clone Name:	OTI3F12
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Protein Families: Druggable Genome, Protein Kinase	Synonyms:	PLK; STPK13
	Protein Families:	Druggable Genome, Protein Kinase

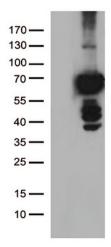


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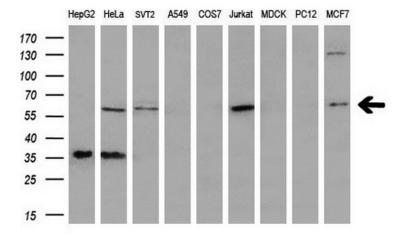
**Protein Pathways:** 

Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation

## **Product images:**



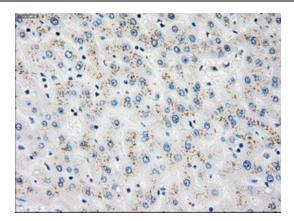
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PLK1 ([RC201795], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PLK1. (1:. Positive lysates [LY417592] (100ug) and [LC417592] (20ug) can be purchased separately from OriGene.



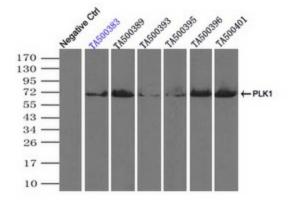
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-PLK1 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:200).

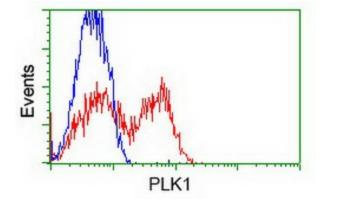
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Immunohistochemical staining of paraffinembedded Human liver tissue within the normal limits using anti-PLK1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500383])





Immunoprecipitation (IP) of PLK1 by using TrueMab monoclonal anti-PLK1 antibodies (Negative control: IP without adding anti-PLK1 antibody.). For each experiment, 500ul of DDK tagged PLK1 overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of anti-PLK1 antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immunoprecipitated products were analyzed with rabbit anti-DDK polyclonal antibody.

HEK293T cells transfected with either [RC201795] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PLK1 antibody ([TA500383]), and then analyzed by flow cytometry.

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