

Product datasheet for **CF500383**

PLK1 Mouse Monoclonal Antibody [Clone ID: OTI3F12]

Product data:

| | |
|-------------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI3F12 |
| Applications: | FC, IHC, IP |
| Recommended Dilution: | IHC 1:150, FLOW 1:100, IP 2ug/500ul |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Full-length protein expressed in 293T cell transfected with human PLK1 expression vector |
| Formulation: | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose) |
| Reconstitution Method: | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 68.1 kDa |
| Gene Name: | polo like kinase 1 |
| Database Link: | NP_005021 Entrez Gene 18817 Mouse Entrez Gene 25515 Rat Entrez Gene 5347 Human P53350 |
| Background: | Serine/threonine-protein kinase that performs several important functions throughout M phase of 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 cytokinesis |



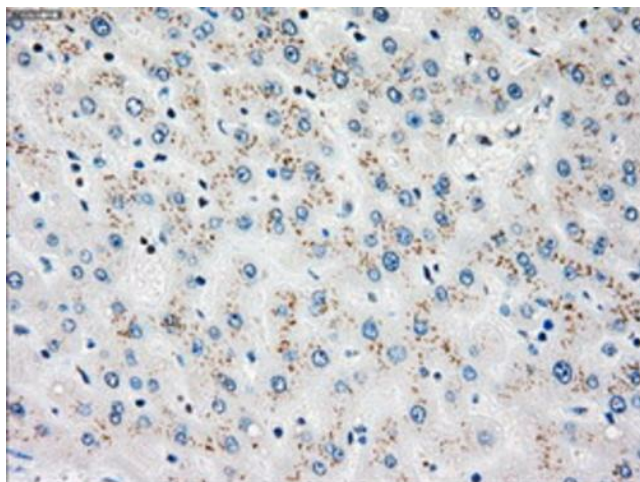
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Synonyms: PLK; STPK13

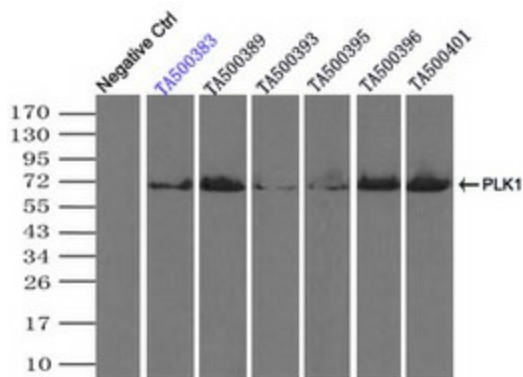
Protein Families: Druggable Genome, Protein Kinase

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

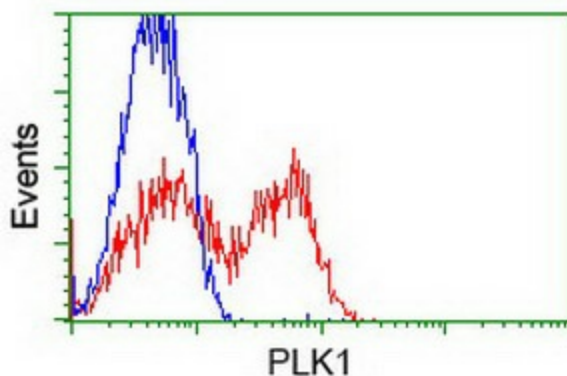
Product images:



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-PLK1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



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.

