



Anti-PLK1 monoclonal antibody, clone 7D7 (CABT-ZC1248)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse Monoclonal Antibody to Human PLK1 molecule
Antigen Description	Polo-like kinases (Plks) are important regulators of the cell cycle. Plk1, the most studied Plk, has been implicated in regulating centrosome maturation, mitotic entry, sister chromatid cohesion, the anaphase-promoting complex/cyclosome (APC/C), and cytokinesis. Sister chromatid separation and the subsequent formation of two genetically identical daughter cells depend on the symmetrical attachment of all chromosomes to the mitotic spindle, a process called chromosome biorientation. Several mitosis-specific protein kinases have been implicated in bipolar spindle assembly and chromosome biorientation. For example, Cdk1 (cyclin-dependent kinase 1) is known to phosphorylate Eg5, a kinesin that is required for the migration of centrosomes and is thus needed for the formation of bipolar spindles. At the onset of mitosis, Plks contribute to the activation of Cdk1-cyclinB, and they are also required for the inactivation of Cdk1 and exit from mitosis. Plks are important regulators of the APC/C, a key component of the ubiquitin-dependent proteolytic degradation pathway.
Target	PLK1
Immunogen	Full length human recombinant protein of human PLK1 produced in HEK293T cell.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	7D7
Conjugate	Unconjugated
Applications	ELISA, LMNX

Buffer	Stored in PBS (pH 7.4) with 0.05% sodium azide, 10mg/ml BSA, 50% glycerol.
Preservative	0.05% Sodium Azide
Storage	Shipped at 4 °C. Upon delivery store at -20 °C. Dilute in PBS (pH7.3) before use. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.

GENE INFORMATION

Entrez Gene ID	5347
UniProt ID	P53350