



Mouse Monoclonal Antibody to PLK1

Catalogue Number	sAP-0743
Target Molecule	Name: PLK1 Aliases: PLK; STPK13 MW: 68kDa Entrez Gene ID: 5347
Description	PLK1 is critical for the initiation of centrosome maturation. Polo-like kinases (PLKs) are a family of four serine/threonine protein kinases that are critical regulators of cell cycle progression, mitosis, cytokinesis, and the DNA damage response. PLK1, -2 and -3 are ubiquitously expressed, whereas PLK4 is restricted to a few tissues including the testes and the thymus. The mRNA and protein expression of PLK1, -2 and -4 are coordinately regulated during cell cycle progression, but PLK3 levels are independent of the other three family members. Furthermore, PLK3 is a much more stable protein than PLK1, -2 or -4. PLK1 is the most well characterized member of this family and strongly promotes the progression of cells through mitosis. During the various stages of mitosis PLK1 localizes to the centrosomes, kinetochores and central spindle.
Immunogen	Purified recombinant fragment of human PLK1 (AA: 331-508) expressed in E. Coli.
Recombinant Species	Human
Clone	MM1D1;
Size and Concentration	100µg/1mg/ml
Supplied as	Lyophilized Powder from 100µl of Purified antibody in PBS with 0.05% sodium azide
Reconstitution/Storages	Reconstituted with 100µl sterile DI H ₂ O, at stored at 4°C or -20°C for short or long term storage
Applications	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; ICC: 1 to 50
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1.J Cell Biol. 2011 Dec 26;195(7):1093-101. ; 2.Eur J Cancer. 2011 Sep;47(14):2166-74. ;

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**