

## Mouse Monoclonal Antibody to CHK2

Catalogue Number	sAP-0185
Target Molecule	<b>Name: CHK2</b> <b>Aliases:</b> CDS1; LFS2; CHEK2 <b>MW:</b> 61kDa <b>Entrez Gene ID:</b> 11200
Description	CHK2: CHK2 checkpoint homolog (S. pombe). In response to DNA damage and replication blocks, cell cycle progression is halted through the control of critical cell cycle regulators. The protein encoded by this gene is a cell cycle checkpoint regulator and putative tumor suppressor. It contains a forkhead-associated protein interaction domain essential for activation in response to DNA damage and is rapidly phosphorylated in response to replication blocks and DNA damage. When activated, the encoded protein is known to inhibit CDC25C phosphatase, preventing entry into mitosis, and has been shown to stabilize the tumor suppressor protein p53, leading to cell cycle arrest in G1. In addition, this protein interacts with and phosphorylates BRCA1, allowing BRCA1 to restore survival after DNA damage. Mutations in this gene have
Immunogen	Purified recombinant fragment of human CHK2 (aa481-531) expressed in E. Coli. ;
Reactive Species	Human
Clone	MM1C12B8;
Size and Concentration	100µg/1mg/ml
Supplied as	Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide.
Reconstitution/Storages	Reconstituted with 100µl sterile DI H <sub>2</sub> 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; IHC: 1 to 200 - 1 to 1000; ICC: 1 to 200 - 1 to 1000
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1. Int J Cancer. 2007 Dec 15;121(12):2661-7. ; 2. Nat Rev Cancer. 2007 Dec;7(12):925-36. ; 3. Carcinogenesis. 2008 Apr;29(4):762-5.

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**