

## Mouse Monoclonal Antibody to ATM

Catalogue Number	sAP-0525
Target Molecule	<b>Name:</b> ATM <b>Aliases:</b> AT1; ATA; ATC; ATD; ATE; ATDC; TEL1; TELO1; MGC74674; DKFZp781A0353; ATM <b>MW:</b> 351kDa <b>Entrez Gene ID:</b> 472
Description	The protein encoded by this gene belongs to the PI3/PI4-kinase family. This protein is an important cell cycle checkpoint kinase that phosphorylates; thus, it functions as a regulator of a wide variety of downstream proteins, including tumor suppressor proteins p53 and BRCA1, checkpoint kinase CHK2, checkpoint proteins RAD17 and RAD9, and DNA repair protein NBS1. This protein and the closely related kinase ATR are thought to be master controllers of cell cycle checkpoint signaling pathways that are required for cell response to DNA damage and for genome stability. Mutations in this gene are associated with ataxia telangiectasia, an autosomal recessive disorder. Tissue specificity: Found in pancreas, kidney, skeletal muscle, liver, lung, placenta, brain, heart, spleen, thymus, testis, ovary, small intestine, colon and leuko-
Immunogen	Purified recombinant fragment of human ATM expressed in E. Coli.
Recitative Species	Human
Clone	MM5C5;
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
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1. Am J Hum Genet. 2008 Aug;83(2):243-53. ; 2. Mol Cell. 2008 Jul 25;31(2):167-77.

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**