

## Monoclonal Mouse Antibody to ATM (Ataxia Telangiectasia Mutated)

<b>Catalog No.:</b>	Mob 334-1, Mob 334-1-05
<b>Applications:</b>	Research Use Only. Optimal working conditions must be determined by the end user.
<b>Immunogen:</b>	BALB/C mice were immunized with synthetic peptide corresponding to human ATM protein amino acids 819-844, conjugated to keyhole limpet hemocyanin.
<b>Clone:</b>	SYR6D4
<b>Isotype:</b>	IgG1
<b>Format:</b>	This antibody is supplied as a purified immunoglobulin fraction containing sodium azide as a preservative.
<b>Titer/Working Dilution:</b>	This antibody may be diluted to a titer of 1:50-1:100 in an ABC method. The final dilution should be determined by the user based upon the staining conditions employed.
<b>Staining Protocol:</b>	We suggest an incubation period of 30 minutes at room temperature. Optimal incubation should be determined by the end user based upon the fixation conditions and staining system employed. <u>Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10 mM citrate buffer, pH 6.0 prior to immunostaining.</u>
<b>Specificity:</b>	This antibody reacts with a 350-370 kD protein known as ATM (ataxia telangiectasia, mutated). ATM protein phosphorylates p53 on serine 15 near the N terminus, thereby contributing to the activation and stabilization of p53 during the ionizing radiation-induced DNA damage response.
<b>Positive Control:</b>	Breast carcinoma
<b>Cellular Localization:</b>	Nuclear
<b>Storage:</b>	Store at 2-8°C. Do not use beyond the expiration date stated on the label.
<b>References:</b>	i) Crawford et al. Semin Pediatr Neurol 5 (4): 287, 1998. ii) Knittweis et al. Med Hypotheses 51 (1): 53, 1998. iii) Shiloh and Kastan Adv. Cancer Res. 83:210, 2001. iv) Watters et al. Oncogene 14:1911, 1997.

### RUO: Research Use Only

DBS will not be held responsible for patent infringement or other violation that may occur with the use of our product

**DBS**

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