

<b>Cat. No:</b>	AB-84178
<b>Size:</b>	100 ug
<b>Clone:</b>	POLY
<b>Concentration:</b>	1mg/ml
<b>Host:</b>	Ms
<b>Isotype:</b>	IgG
<b>Immunogen:</b>	Recombinant fusion protein containing a sequence corresponding to amino acids 400-650 of hu- ATR
<b>Reactivity:</b>	Ms
<b>Applications:</b>	Western Blot : 1:500-1:1,000
<b>Molecular Weight:</b>	316 kDA
<b>Purification:</b>	Aff.Pur.

**Background:**

The protein encoded by this gene belongs the PI3/PI4-kinase family, and is most closely related to ATM, a protein kinase encoded by the gene mutated in ataxia telangiectasia. This protein and ATM share similarity with Schizo-saccharomyces pombe rad3, a cell cycle checkpoint gene required for cell cycle arrest and DNA damage repair in response to DNA damage. This kinase has been shown to phosphorylate checkpoint kinase CHK1, checkpoint proteins RAD17, and RAD9, as well as tumor suppressor protein BRCA1. Mutations of this gene are associated with Seckel syndrome. An alternatively spliced transcript variant of this gene has been reported, however, its full length nature is not known. Transcript variants utilizing alternative poly A sites exist.

<b>Form:</b>	Liquid
<b>Buffer:</b>	Liquid in PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
<b>Storage:</b>	Storage for short term at 4°C recommended, for longer term at -20°C, minimize freeze/thaw cycles

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