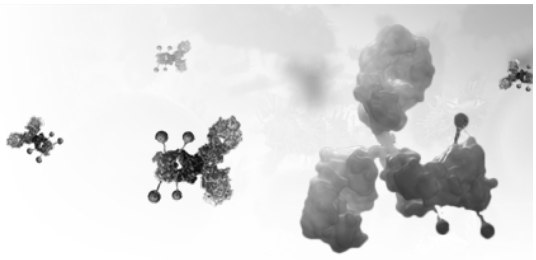

Anti-ATM (aa 1-100) polyclonal antibody (DPAB-DC2007)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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.
Immunogen	ATM (AAH07023, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. The sequence is MTLHEPANSSASQSTDLCDFSGDLDPAPNPPHFPSHVVKATFAYISNCHKTKLKSILEIL SKSPDSYQKILLAICEQAAETNNVYKKHRILKIYHLFVSL
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

GENE INFORMATION

Gene Name	ATM ATM serine/threonine kinase [Homo sapiens (human)]
Official Symbol	ATM
Synonyms	ATM; ATM serine/threonine kinase; AT1; ATA; ATC; ATD; ATE; ATDC; TEL1; TELO1; serine-protein kinase ATM; AT mutated; A-T mutated; ataxia telangiectasia mutated; TEL1, telomere maintenance 1, homolog;
Entrez Gene ID	472
Protein Refseq	NP_000042
UniProt ID	A0A024R3C7
Chromosome Location	11q22-q23
Pathway	ATM mediated phosphorylation of repair proteins; Apoptosis; BARD1 signaling events; Canonical NF-kappaB pathway
Function	1-phosphatidylinositol-3-kinase activity; ATP binding; DNA binding; DNA-dependent protein kinase activity

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221