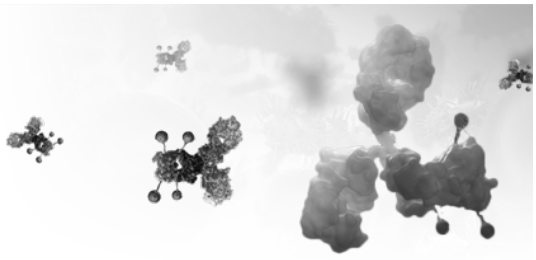

ATM blocking peptide (CDBP5127)

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. [provided by RefSeq, Aug 2010]
Conjugate	Unconjugated
Applications	Used as a blocking peptide in immunoblotting applications.
Format	Liquid
Concentration	200 µg/mL
Size	0.05 mg
Preservative	None
Storage	-20°C

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

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	maintenance 1, homolog
Entrez Gene ID	472
mRNA Refseq	NM_000051
Protein Refseq	NP_000042
UniProt ID	Q13315
Pathway	ATM mediated phosphorylation of repair proteins; ATM mediated response to DNA double-strand break; Apoptosis; Autodegradation of the E3 ubiquitin ligase COP1; BARD1 signaling events; BRCA1-associated genome surveillance complex (BASC); Canonical NF-kappaB pathway; Cell Cycle
Function	1-phosphatidylinositol-3-kinase activity; ATP binding; DNA binding; DNA-dependent protein kinase activity; histone serine kinase activity; protein N-terminus binding; protein binding; protein complex binding; protein dimerization activity; protein serine/threonine kinase activity

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