

# Recombinant Full Length Human ATM Protein, GST-tagged

**Cat. No.** ATM-1531HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human ATM full-length ORF (AAH07023.1, 1 a.a. - 138 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	138 amino acids
<b>Description</b>	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]
<b>Molecular Mass</b>	40.81 kDa
<b>AA Sequence</b>	MTLHEPANSS ASQSTDLCDF SGDLDPAPNP PHFPSHVVKA TFAYISNCHK TKLKSILEIL SKSPDSYQKI LLAICEQAAE TNNVYKKHRI LKIYHLFVSL LLKDIKSLGLG GAWAFVLRDV IYTLIHYINQ RKLTIIFSQ

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<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	ATM ataxia telangiectasia mutated [ Homo sapiens ]
<b>Official Symbol</b>	ATM
<b>Synonyms</b>	ATM; ataxia telangiectasia mutated; ATA, ataxia telangiectasia mutated (includes complementation groups A, C and D) , ATC, ATD, ATDC; serine-protein kinase ATM; TEL1; telomere maintenance 1; homolog (S. cerevisiae); TELO1; AT mutated; A-T mutated; TEL1, telomere maintenance 1, homolog; AT1; ATA; ATC; ATD; ATE; ATDC; MGC74674; DKFZp781A0353
<b>Gene ID</b>	472
<b>mRNA Refseq</b>	NM_000051
<b>Protein Refseq</b>	NP_000042
<b>MIM</b>	607585
<b>UniProt ID</b>	Q13315

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