

Recombinant Human ATR protein, GST-tagged

Cat. No. ATR-1026H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATR partial ORF (NP_001175, 2545 a.a. - 2644 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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 Schizosaccharomyces 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 polyA sites exist. [provided by RefSeq, Jul 2008]
Molecular Mass	36.74 kDa
AA Sequence	DQREPLMSVLKTFLLHDPLVEWSKPVKGHSAKPLNETGEVVNEKAKTHVLDIEQRLQ GVIKTRNRVTGLPLSIEGHVHYLIQEATDENLLCQMYLGWTPYM
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array

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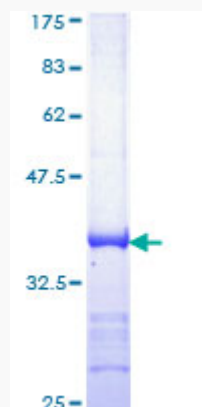
 45-1 Ramsey Road, Shirley, NY 11967, USA

Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	ATR ataxia telangiectasia and Rad3 related [Homo sapiens]
Official Symbol	ATR
Synonyms	ATR; ataxia telangiectasia and Rad3 related; serine/threonine-protein kinase ATR; FRP1; MEC1; mitosis entry checkpoint 1; homolog (S. cerevisiae); SCKL; SCKL1; protein kinase ATR; Rad3 related protein; FRAP-related protein 1; FRAP-related protein-1; MEC1, mitosis entry checkpoint 1, homolog; ataxia telangiectasia and Rad3-related protein; FCTCS;
Gene ID	545
mRNA Refseq	NM_001184
Protein Refseq	NP_001175
MIM	601215
UniProt ID	Q13535

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12.5% SDS-PAGE Stained with Coomassie Blue.

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