

## Recombinant Human ATR Protein, GST-tagged

**Cat. No.** ATR-4932H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human ATR (2245-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Insect cells
<b>ProteinLength</b>	2245-end a.a.
<b>Description</b>	The protein encoded by this gene is a serine/threonine kinase and DNA damage sensor, activating cell cycle checkpoint signaling upon DNA stress. The encoded protein can phosphorylate and activate several proteins involved in the inhibition of DNA replication and mitosis, and can promote DNA repair, recombination, and apoptosis. This protein is also important for fragile site stability and centrosome duplication. Defects in this gene are a cause of Seckel syndrome 1.
<b>Molecular Mass</b>	70 kDa
<b>Purity</b>	> 85%
<b>Applications</b>	WB
<b>Stability</b>	1 year at -70 centigrade from date of shipment.
<b>Storage</b>	Store product at -70 centigrade. For optimal storage, aliquot target into smaller

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quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

**Concentration** 0.5 µg/µl

**Storage Buffer** 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.

## GENE INFORMATION

**Gene Name** ATR

**Official Symbol** ATR ATR serine/threonine kinase [ Homo sapiens (human) ]

**Synonyms** FRP1; MEC1; SCKL; SCKL1; ATR; ATR serine/threonine kinase; FCTCS; serine/threonine-protein kinase ATR; FRAP-related protein-1; MEC1, mitosis entry checkpoint 1, homolog; ataxia telangiectasia and Rad3-related protein; EC 2.7.11.1

**Gene ID** 545

**mRNA Refseq** NM\_001184

**Protein Refseq** NP\_001175

**MIM** 601215

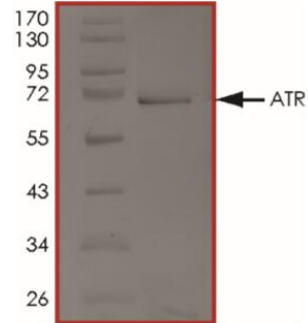
**UniProt ID** Q13535

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**Purity**



The purity of ATP was determined to be >85% by densitometry.

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