

Recombinant Human ATR protein, His & T7-tagged

Cat. No. ATR-1768H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATR aa. (Ala2353~Met2644 (Accession # Q13535)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ala2353~Met2644
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 37.4kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Applications	SDS-PAGE; WB; ELISA; IP.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	8.4

GENE INFORMATION

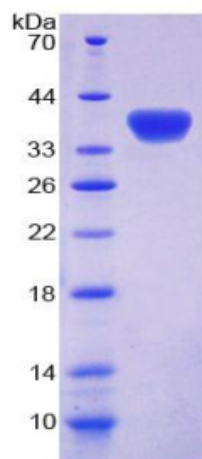
Gene Name	ATR ATR serine/threonine kinase [Homo sapiens (human)]
Official Symbol	ATR
Synonyms	ATR; ATR serine/threonine kinase; FRP1; MEC1; SCKL; FCTCS; SCKL1; serine/threonine-protein kinase ATR; FRAP-related protein-1; MEC1, mitosis entry checkpoint 1, homolog; ataxia telangiectasia and Rad3-related protein
Gene ID	545
mRNA Refseq	NM_001184.3
Protein Refseq	NP_001175.2
UniProt ID	Q13535

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SDS-PAGE



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