

# Recombinant Full Length Human VRK1 protein, His tagged

Cat. No. VRK1-12H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human VRK1 protein (1-396 aa) with His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-396 aa
<b>Description</b>	<p>This gene encodes a member of the vaccinia-related kinase (VRK) family of serine/threonine protein kinases. This gene is widely expressed in human tissues and has increased expression in actively dividing cells, such as those in testis, thymus, fetal liver, and carcinomas. Its protein localizes to the nucleus and has been shown to promote the stability and nuclear accumulation of a transcriptionally active p53 molecule and, in vitro, to phosphorylate Thr18 of p53 and reduce p53 ubiquitination. This gene, therefore, may regulate cell proliferation. This protein also phosphorylates histone, casein, and the transcription factors ATF2 (activating transcription factor 2) and c-JUN.</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	47 kDa
<b>AA Sequence</b>	MVHHHHHHHHHHMMPRVKAAQAGRQSSAKRHLAEQFAVGEIITDMAKKEWKVGLPI GQGGFGCIYLADMNSSESVGSDAPCVVKVEPSDNGPLFTELKIFYQRAAKPEQIQKW

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IRTRKLYLGVPKYWGSLHDKNGKSYRFMIMDRFGSDLQKIYEANAKRFSRKTVL  
 QLSLRILDILEYIHEHEYVHGDIKASNLLNYPDQVYLVLDYGLAYRYCPEGVHKEY  
 KEDPKRCHDGTIEFTSIDAHNGVAPSRRGDLEILGYCMIQWLTGHLPWEDNLKDPKY  
 VRDSKIRYRENIASLMDKCFPEKNKPGEIAKYMETVKLLDYTEKPLYENLRDILLQGL  
 KAIGSKDDGKLDLSVVENGGLKAKTITKKRKEIEESKEPGVEDTEWSNTQTEEAIQT  
 RSRTRKRVQK

**Purity** > 90 % by SDS-PAGE

**Storage** Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Storage Buffer** Sterile 50mM Tris, 300mM NaCl, pH 7.5, 5 % Trehalose, 5 % Mannitol.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution of 0.65 mg/mL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

## GENE INFORMATION

**Gene Name** VRK1 VRK serine/threonine kinase 1 [ Homo sapiens (human) ]

**Official Symbol** VRK1

**Synonyms** VRK1; vaccinia related kinase 1; serine/threonine-protein kinase VRK1; vaccinia-related kinase 1; vaccinia virus B1R-related kinase 1; PCH1; MGC117401; MGC138280; MGC142070

**Gene ID** 7443

**mRNA Refseq** NM\_003384

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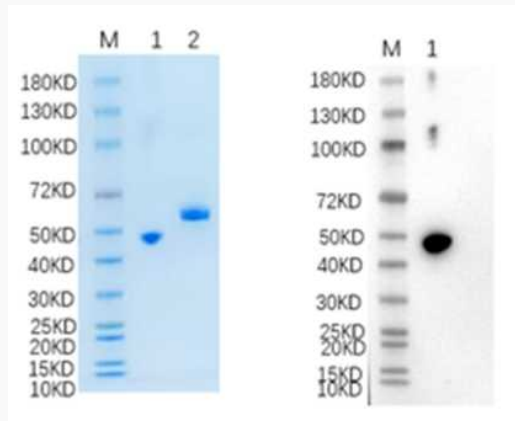
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**Protein Refseq** NP\_003375

**MIM** 602168

**UniProt ID** Q99986

**Reducing 12 % SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal Antibody) analysis profiles of purified VRK1.**



1. VRK1  
2. BSA

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