Recombinant Human VRK1 Protein (Full Length), N-FLAG tagged

Cat. No. VRK1-05H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human VRK1 protein was expressed in a baculovirus expression system as the full length protein (accession number NP_003375.1) with a N-terminal FLAG tag.
Species	Human
Source	Insect Cells
ProteinLength	Full Length
Description	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.
Molecular Mass	46.7 kDa
Purity	> 90%

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

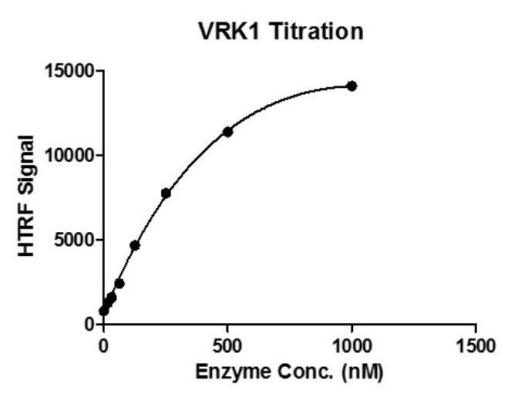
Notes	This product is for research use only and is not for use in diagnostic procedures. This product is guaranteed for 6 months from date of arrival.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

GENE INFORMATION

Gene Name	VRK1 VRK serine/threonine kinase 1 [Homo sapiens (human)]
Official Symbol	VRK1
Synonyms	VRK1; VRK serine/threonine kinase 1; PCH1; PCH1A; serine/threonine-protein kinase VRK1; vaccinia related kinase 1; vaccinia virus B1R-related kinase 1; EC 2.7.11.1
Gene ID	7443
mRNA Refseq	NM_003384
Protein Refseq	NP_003375
MIM	602168
UniProt ID	Q99986

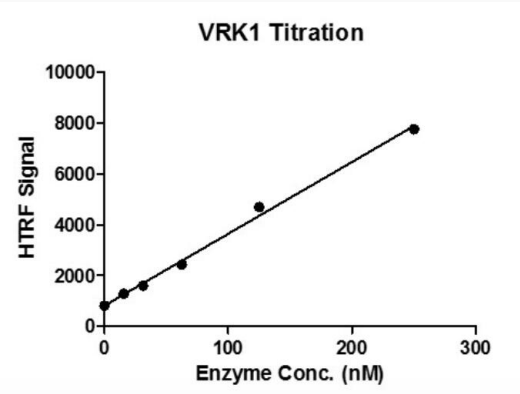
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

HTRF assay for VRK1 activity



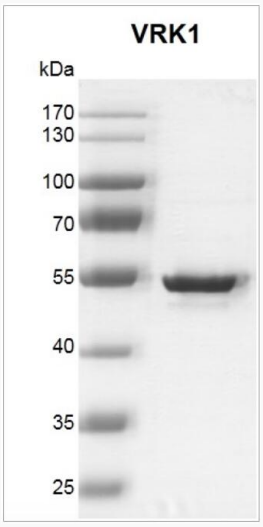
STK S1 substrate was incubated with different concentrations of VRK1 protein in a reaction system for 1 hour. The detection reagents were added and incubated with the reactions for 1 hr. All the operations and reactions were performed at room temperature, and HTRF KinASE STK assay was used to detect the enzymatic activity.

HTRF assay for VRK1 activity



STK S1 substrate was incubated with different concentrations of VRK1 protein in a reaction system for 1 hour. The detection reagents were added and incubated with the reactions for 1 hr. All the operations and reactions were performed at room temperature, and HTRF KinASE STK assay was used to detect the enzymatic

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	activity.
SDS-PAGE	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA