

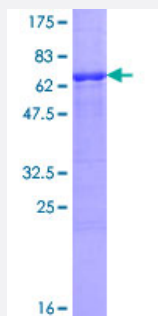
Full-Length

VRK1 (Human) Recombinant Protein (P01)

Catalog # H00007443-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human VRK1 full-length ORF (NP_003375.1, 1 a.a. - 396 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MPRVKAAQAGRQSSAKRHAEQFAVGEIITDMAKKEWKVGLPIGQGGFGCMLADMNSSESVGS
DAPCVVKVEPSDNGPLFTELKFYQRAAKPEQIQKWIRTRKLKYLGVPKYWGSLHDKNGKSYRF
MIMDRFGSDLQKIYEANAKRFSRKTVLQLSLRILDILEYIHEHEYVHGDIKASNLLNYPDQVYLVD
YGLAYRYCPEGVHKEYKEDPKRCHDGTIEFTSIDAHNGVAPSRRGDLEILGYCMIQWLTGHLPE
DNLKDPKYVRDSKIRYRENIASLMDKCFPEKNKPGEIAKYMETVKLLDYTEKPLYENLRDILLQGLK
AIGSKDDGKLDLSVVENGGLKAKTITKKRKEIEESKEPGVEDTEWSNTQTEEAIQTRSRTRKRVQ
K

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

71.9

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — VRK1

Entrez GeneID [7443](#)

GeneBank Accession# [NM_003384.2](#)

Protein Accession# [NP_003375.1](#)

Gene Name VRK1

Gene Alias MGC117401, MGC138280, MGC142070

Gene Description vaccinia related kinase 1

Omim ID [602168](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations vaccinia virus B1R-related kinase 1|vaccinia-related kinase-1