Recombinant Human VRK2

Cat. No. VRK2-31741TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 1-375 of Human VRK2 with an N terminal proprietary tag; MWt 66 kDa inclusive of tag.
Species	Human
Source	Sf9 Cells
ProteinLength	375 amino acids
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, leukocytes, fetal liver, and carcinomas. Its protein localizes to the endoplasmic reticulum and has been shown to phosphorylate casein and undergo autophosphorylation. Multiple alternatively spliced transcript variants have been found for this gene.
Molecular Weight	66.000kDa inclusive of tags
Tissue specificity	Widely expressed. Highly expressed in fetal liver, skeletal muscle, pancreas, heart, peripheral blood leukocytes and testis.
Biological activity	Specific activity: 12 nmol/min/mg
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. CK1 Ser/Thr protein kinase family. VRK subfamily.Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	VRK2 vaccinia related kinase 2 [Homo sapiens]
Official Symbol	VRK2
Synonyms	VRK2; vaccinia related kinase 2; serine/threonine-protein kinase VRK2;
Gene ID	7444
mRNA Refseq	NM_001130480
Protein Refseq	NP_001123952
MIM	602169
Uniprot ID	Q86Y07
Chromosome Location	2p16.1

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Function	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity;

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