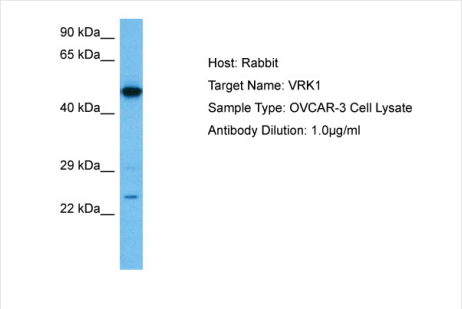
VRK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	VRK1, Polyclonal Antibody
Full Product Name	VRK1 Antibody - C-terminal region
Product Gene Name	anti-VRK1 antibody
Product Synonym Gene Name	PCH1; PCH1A
Immunogen Sequence	Synthetic peptide located within the following region: GGLKAKTITK KRKKEIEESK EPGVEDTEWS NTQTEEAIQT RSRTRKRVQK
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	45 kDa
3D Structure	ModBase 3D Structure for Q99986
Immunogen	The immunogen is a synthetic peptide directed towards the C terminal region of human VRK1
Product Categories/Family for anti-VRK1 antibody	Polyclonal; Transcription Regulation; Growth Factors & Hormones; Apoptosis; Meiosis/Mitosis/Cell Cycle
Applications Tested/Suitable for anti-VRK1 antibody	Western Blot (WB)
Related Product Information for anti-VRK1 antibody	Serine/threonine kinase involved in Golgi disassembly during the cell cycle: following phosphorylation by PLK3 during mitosis, required to induce Golgi fragmentation. Acts by mediating phosphorylation of downstream target protein. Phosphorylates 'Thr-18' of p53/TP53 and may thereby prevent the interaction between p53/TP53 and MDM2. Phosphorylates casein and histone H3. Phosphorylates BANF1: disrupts its ability to bind DNA, reduces its binding to LEM domain-containing proteins and causes its relocalization from the nucleus to the cytoplasm. Phosphorylates ATF2 which activates its transcriptional activity.
Other Notes	Small volumes of anti-VRK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for VRK1 purchase	MBS3224054 is an antibody targeting VRK1. Also known as VRK1 Antibody - C-terminal region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-VRK1 antibody
Host: RabbitTarget Name: VRK1Sample Tissue: Human OVCAR-3 Whole Cell lysatesAntibody Dilution: 1ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VRK1. It may not necessarily be applicable to this product.

NCBI GI #	4507903
NCBI GeneID	7443
NCBI Accession #	NP_003375.1
UniProt Primary Accession #	Q99986
UniProt Related Accession #	Q99986
GenBank Nucleotide #	NM_003384.2
NCBI Official Full Name	serine/threonine-protein kinase VRK1
NCBI Official Synonym Full Names	VRK serine/threonine kinase 1
NCBI Official Symbol	VRK1
NCBI Official Synonym Symbols	PCH1; PCH1A
UniProt Protein Name	Serine/threonine-protein kinase VRK1
UniProt Synonym Protein Names	Vaccinia-related kinase 1
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	VRK1
NCBI Protein Information	serine/threonine-protein kinase VRK1
NCBI Summary for VRK1	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, Jul 2008]
Research Articles on VRK1	**1.** VRK1 and AURKB for a complex that inhibits their kinase activity and H3 histone phosphorylation. In locations where the two kinases interact, there is a different pattern of histone modifications, indicating that there is a local difference in chromatin during mitosis because of the local complexes formed by these kinases and their asymmetric intracellular distribution.
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