

Product datasheet for **CF805595**

VRK1 Mouse Monoclonal Antibody [Clone ID: OTI2C9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2C9
Applications:	WB
Recommended Dilution:	WB 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 1-230 of human VRK1(NP_003375) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	45.3 kDa
Gene Name:	VRK serine/threonine kinase 1
Database Link:	NP_003375 Entrez Gene 7443 Human Q99986

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Background:

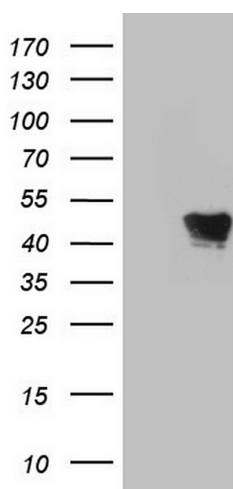
This gene encodes a member of the vaccinia-related kinase (VRK) family of serine/threonine protein kinases. This gene is widely expressed in human tissues and has increased expression in actively dividing cells, such as those in testis, thymus, fetal liver, and carcinomas. Its protein localizes to the 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]

Synonyms:

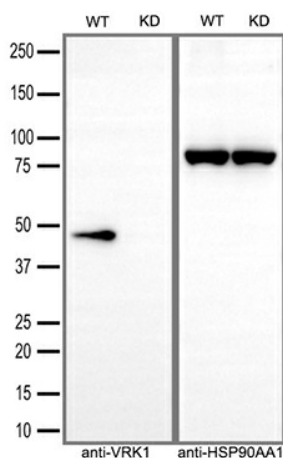
PCH1; PCH1A

Protein Families:

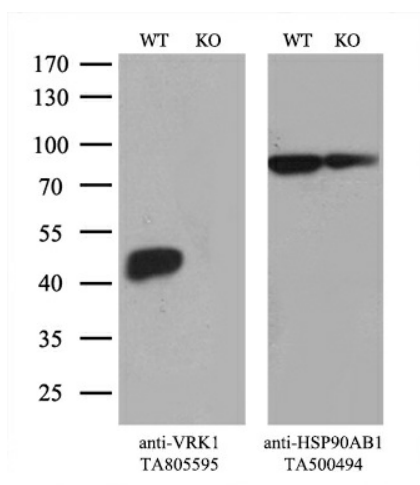
Druggable Genome, Protein Kinase

Product images:


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY VRK1 (Cat# [RC210764], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-VRK1 (Cat# [TA805595]). Positive lysates [LY418719] (100ug) and [LC418719] (20ug) can be purchased separately from OriGene.



Equivalent amounts of cell lysates (30 ug per lane) of wild-type HeLa cells (WT) and VRK1-Knockdown HeLa cells (KD) were separated by SDS-PAGE and immunoblotted with anti-VRK1 monoclonal antibody [TA805595] (1:2500). Then the blotted membrane was stripped and reprobed with anti-HSP90AA1 antibody as a loading control.



Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and VRK1-Knockout 293T cells (KO, Cat# [LC810797]) were separated by SDS-PAGE and immunoblotted with anti-VRK1 monoclonal antibody [TA805595], (1:100). Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control.