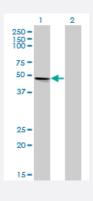
VRK1 monoclonal antibody (M02), clone 4F9

100 ug

Catalog # H00007443-M02 Size

Applications



250 -150 -100 -

75 -

50 **-**37 **-**

25 -

15 -10 -

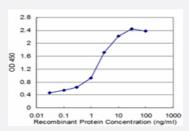
Western Blot (Transfected lysate)

Western Blot analysis of VRK1 expression in transfected 293T cell line by VRK1 monoclonal antibody (M02), clone 4F9.

Lane 1: VRK1 transfected lysate(45.5 KDa). Lane 2: Non-transfected lysate.

Immunoprecipitation

Immunoprecipitation of VRK1 transfected lysate using anti-VRK1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with VRK1 monoclonal antibody.

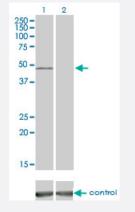


Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged VRK1 is approximately 0.1ng/ml as a capture antibody.

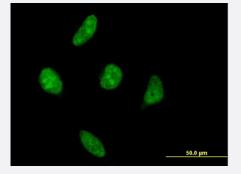
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Product Information



RNAi Knockdown (Antibody validated)

Western blot analysis of VRK1 over-expressed 293 cell line, cotransfected with VRK1 Validated Chimera RNAi (Cat # H00007443-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with VRK1 monoclonal antibody (M02) clone 4F9 (Cat # H00007443-M02). GAPDH (36.1 kDa) used as specificity and loading control.



Immunofluorescence

Immunofluorescence of monoclonal antibody to VRK1 on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (37.84 KDa).

Specification	
Product Description	Mouse monoclonal antibody raised against a partial recombinant VRK1.
Immunogen	VRK1 (NP_003375, 287 a.a. ~ 396 a.a) partial recombinant protein with GST tag. MW of the GST ta g alone is 26 KDa.
Sequence	DKCFPEKNKPGEIAKYMETVKLLDYTEKPLYENLRDILLQGLKAIGSKDDGKLDLSVVENGGLKAK TITKKRKKEIEESKEPGVEDTEWSNTQTEEAIQTRSRTRKRVQK
Host	Mouse
Reactivity	Human
lsotype	lgG2a Kappa

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Product Information

Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

Western Blot (Transfected lysate)

Western Blot analysis of VRK1 expression in transfected 293T cell line by VRK1 monoclonal antibody (M02), clone 4F9.

Lane 1: VRK1 transfected lysate(45.5 KDa). Lane 2: Non-transfected lysate.

Protocol Download

Western Blot (Recombinant protein)

Protocol Download

Immunoprecipitation

Immunoprecipitation of VRK1 transfected lysate using anti-VRK1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with VRK1 monoclonal antibody.

Protocol Download

Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged VRK1 is approximately 0.1ng/ml as a capture antibody.

Protocol Download

- ELISA
- RNAi Knockdown (Antibody validated)

Western blot analysis of VRK1 over-expressed 293 cell line, cotransfected with VRK1 Validated Chimera RNAi (Cat # H00007443-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with VRK1 monoclonal antibody (M02) clone 4F9 (Cat # H00007443-M02). GAPDH (36.1 kDa) used as specificity and loading control.

Protocol Download

Immunofluorescence

Immunofluorescence of monoclonal antibody to VRK1 on HeLa cell . [antibody concentration 10 ug/ml]

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Gene Info — VRK1	
Entrez GenelD	7443
GeneBank Accession#	<u>NM_003384</u>
Protein Accession#	<u>NP_003375</u>
Gene Name	VRK1
Gene Alias	MGC117401, MGC138280, MGC142070
Gene Description	vaccinia related kinase 1
Omim ID	<u>602168</u>
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the vaccinia-related kinase (VRK) family of serine/threonine prot ein kinases. This gene is widely expressed in human tissues and has increased expression in act ively 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 transcri ptionally active p53 molecule and, in vitro, to phosphorylate Thr18 of p53 and reduce p53 ubiquitin ation. This gene, therefore, may regulate cell proliferation. This protein also phosphorylates histon e, casein, and the transcription factors ATF2 (activating transcription factor 2) and c-JUN. [provid ed by RefSeq
Other Designations	vaccinia virus B1R-related kinase 1 vaccinia-related kinase-1