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Datasheet for ABIN5675136

anti-VRK2 antibody (AA 151-250)





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Overview

Quantity:	100 μL
Target:	VRK2
Binding Specificity:	AA 151-250
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VRK2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human VRK2
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Chicken
Purification:	Purified by Protein A.

Target Details

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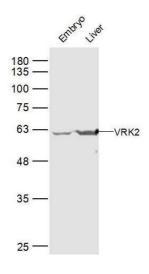
Target Details

Alternative Name:	VRK2 (VRK2 Products)
Background:	Synonyms: Serine/threonine-protein kinase VRK2, VRK2, Vaccinia-related kinase 2
	Background: Serine/threonine kinase that regulates several signal transduction pathways.
	Isoform 1 modulates the stress response to hypoxia and cytokines, such as interleukin-1 beta
	(IL1B) and this is dependent on its interaction with MAPK8IP1, which assembles mitogen-
	activated protein kinase (MAPK) complexes. Inhibition of signal transmission mediated by the
	assembly of MAPK8IP1-MAPK complexes reduces JNK phosphorylation and JUN-dependent
	transcription. Phosphorylates 'Thr-18' of p53/TP53, histone H3, and may also phosphorylate
	MAPK8IP1. Phosphorylates BANF1 and disrupts its ability to bind DNA and reduces its binding
	to LEM domain-containing proteins. Downregulates the transactivation of transcription induced
	by ERBB2, HRAS, BRAF, and MEK1. Blocks the phosphorylation of ERK in response to ERBB2
	and HRAS. Can also phosphorylate the following substrates that are commonly used to
	establish in vitro kinase activity: casein, MBP and histone H2B, but it is not sure that this is
	physiologically relevant. Isoform 2 phosphorylates 'Thr-18' of p53/TP53, as well as histone H3.
	Reduces p53/TP53 ubiquitination by MDM2, promotes p53/TP53 acetylation by EP300 and
	thereby increases p53/TP53 stability and activity.
Gene ID:	7444
UniProt:	Q86Y07
Application Details	
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 μg/μL

Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Lane 1: mouse embryo lysates Lane 2: mouse liver lysates probed with VRK2 Polyclonal Antibody, Unconjugated at 1:300 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.