

#3260

VRK3 Antibody

Store at -20°C



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	54	Rabbit	#Q8IV63	51231

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	VRK3 Antibody detects endogenous levels of total VRK3 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human VRK3. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	The vaccinia-related kinase (VRK) proteins are a new group of Ser/Thr kinases in the human kinome. This mammalian kinase family comprises three members, VRK1, VRK2, and VRK3 (1-3). The VRK1 has autophosphorylation activity and phosphorylates several transcription factors, including p53 (4), ATF2 (5), and c-Jun (6). VRK2 is associated with the endoplasmic reticulum (7). VRK3 suppresses Erk activity through direct interaction and activation of the MAP kinase phosphatase VHR (8). Further functional and structural analysis of VRK proteins will elucidate important new aspects of cell regulation.	
Background References	1. Nezu, J. et al. (1997) <i>Genomics</i> 45, 327-31. 2. Zelko, I. et al. (1998) <i>Arch Biochem Biophys</i> 352, 31-6. 3. Vega, F.M. et al. (2003) <i>FEBS Lett</i> 544, 176-80. 4. Lopez-Borges, S. and Lazo, P.A. (2000) <i>Oncogene</i> 19, 3656-64. 5. Sevilla, A. et al. (2004) <i>J Biol Chem</i> 279, 27458-65. 6. Sevilla, A. et al. (2004) <i>Oncogene</i> 23, 8950-8. 7. Nichols, R.J. and Traktman, P. (2004) <i>J Biol Chem</i> 279, 7934-46. 8. Kang, T.H. and Kim, K.T. (2006) <i>Nat Cell Biol</i> 8, 863-9.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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