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# **HIPK2 Antibody**



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

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 130-140	Source: Rabbit	<b>UniProt ID:</b> #Q9H2X6	Entrez-Gene Id: 28996
Product Usage Information	•	plication estern Blotting		Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		HIPK2 Antibody detects endogenous levels of total HIPK2 protein.				
Source / Purification	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln1045 of human HIPK2 protein. Antibodies were purified by protein A and peptide affinity chromatography.				
Background	regi are HIP HIP pho add tum (9,1 Cas	Members of the homeodomain-interacting protein kinase (HIPK1-4) family of serine/threonine kinases regulate gene transcription with effects on cell proliferation, differentiation, and apoptosis (1-3). HIPK1-3 are nuclear proteins that were originally described as co-repressors for homeobox transcription factors (1). HIPK proteins can interact with and/or phosphorylate many transcriptional regulators (4). HIPK2 activated in response to DNA damage, including UV radiation and chemotherapeutic drugs, phosphorylates p53 at Ser46 to promote the transcription of pro-apoptotic p53 target genes (5-7). In addition, HIPK2 interacts with a number of transcription factors that control developmental processes, tumor suppression and apoptosis (4). The kinase is regulated by both sumoylation (8) and ubiquitination (9,10). Ubiquitination and subsequent degradation of HIPK2 is inhibited by DNA damaging agents. Caspase-dependent cleavage of HIPK2 removes the inhibitory domain and results in enhanced HIPK2 activity (11).				
Background Referer	<ol> <li>Kim, Y.H. et al. (1998) J Biol Chem 273, 25875-9.</li> <li>Rochat-Steiner, V. et al. (2000) J Exp Med 192, 1165-74.</li> <li>Arai, S. et al. (2007) FEBS Lett 581, 5649-57.</li> <li>Rinaldo, C. et al. (2007) Biochem Cell Biol 85, 411-8.</li> <li>Hofmann, T.G. et al. (2002) Nat Cell Biol 4, 1-10.</li> <li>D'Orazi, G. et al. (2002) Nat Cell Biol 4, 11-9.</li> <li>Di Stefano, V. et al. (2004) Exp Cell Res 293, 311-20.</li> <li>Kim, Y.H. et al. (1999) Proc Natl Acad Sci U S A 96, 12350-5.</li> <li>Choi, D.W. et al. (2008) J Biol Chem 283, 4682-9.</li> <li>Winter, M. et al. (2008) Nat Cell Biol 10, 812-24.</li> <li>Gresko, E. et al. (2006) EMBO J 25, 1883-94.</li> </ol>					

**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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## **Limited Uses**

### HIPK2 Antibody (#5091) Datasheet Without Images Cell Signaling Technology

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