

Limited Uses

HIPK2 Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only, Not for Use in Diagnostic Procedures

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 130-140	Source/Isotype: Rabbit	UniProt ID: #Q9H2X6	Entrez-Gene Id: 28996
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		HIPK2 Antibody detects endogenous levels of total HIPK2 protein.				
Source / Purification		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		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 References		1. Kim, Y.H. et al. (1996) 2. Rochat-Steiner, V. et al. (2007) 4. Rinaldo, C. et al. (2005) 5. Hofmann, T.G. et al. (2007) 6. D'Orazi, G. et al. (2007) 7. Di Stefano, V. et al. 8. Kim, Y.H. et al. (1999) 9. Choi, D.W. et al. (2011) 10. Winter, M. et al. (2011)	t al. (2000) <i>J Exp Me</i> FEBS Lett 581, 564 007) Biochem Cell B (2002) Nat Cell Biol 002) Nat Cell Biol 4, (2004) Exp Cell Res 9) Proc Natl Acad S 08) <i>J Biol Chem</i> 283 008) Nat Cell Biol 1	nd 192, 1165-74. 9-57. 9-57. 9-6/4, 1-10. 11-9. 293, 311-20. ci U S A 96, 12350-5. , 4682-9. 0, 812-24.		
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		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				

more information.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's

terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.