#8947 Store at -20C

Phospho-NDRG1 (Thr346) (D98G11) XP[®] Rabbit mAb (HRP Conjugate)



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 Mk	Sensitivity: Endogenous	MW (kDa): 46, 48	Source/Isotype: Rabbit IgG	UniProt ID: #Q92597	Entrez-Gene Id: 10397	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage				nM sodium phosphate (d 50% glycerol. Store at			
Specificity/Sensitivity		Phospho-NDRG1 (Thr346) (D98G11) XP [®] Rabbit mAb (HRP Conjugate) detects endogenous levels of NDRG1 when phosphorylated at Thr346. This antibody likely cross-reacts with other conserved phosporylation sites on NDRG1 at positions Thr356 and Thr366.					
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr346 of mouse NDRG1 protein.					
Description		This Cell Signaling Technology [®] antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-NDRG1 (Thr346) (D98G11) XP [®] Rabbit mAb #5482.					
Background		member of the NDRG differentiation, and ce variety of stress signa calcium (2). Expression and c-myc (1,6). Durin for p53-mediated apo cancer progression by angiogenesis (3,4,6,8, motor and sensory ne NDRG1 in maintaining cell maturation and it: are substrates of SGK not known (13). NDRG Phosphorylation by SG Phospho-NDRG1 (Thr. Signaling Technology discovery. Phosphoryl to be induced by insul	family, which is cor ell survival (1-5). NDI ls, including DNA da n of NDRG1 is eleva g DNA damage, ND ptosis (4,7). Researd / promoting differer 9). Nonsense mutat europathy-Lom (HM g myelin sheaths an s deletion leads to a 1, although the pre- GK1 primes NDRG1 346) (D98G11) XP [®] F (CST) using Phosph ation at Thr346 was lin treatment in mul	DRG1), also termed Cap4 nposed of four member RG1 is ubiquitously expr amage (4), hypoxia (5), a ted in N-myc defective r RG1 is induced in a p53 th studies have shown t ntiation, inhibiting grow ion of the <i>NDRG1</i> gene SNL), which is supporter d axonal survival (10,11) ttenuated allergic respo- cise physiological role of d by SGK1 at Thr328, Ser for phosphorylation by Rabbit mAb is directed a oScan [®] , CST's LC-MS/MS discovered using an Ak tiple cell lines. Please vi Aphosphosite.org for m	s (NDRG1-4) that fu ressed and highly re- und elevated levels of dependent fashion hat NDRG1 may also th, and modulating has been shown to d by studies demon). NDRG1 is upregul onses (12). Both NDI f SGK1-mediated ph r330, Thr346, Thr356 GSK-3. t a site that was ide 5 platform for modific t substrate antibod sit PhosphoSitePlus	nction in growth, sponsive to a of nickel and ly regulated by N- and is necessary o play a role in metastasis and cause hereditary strating the role of ated during mast RG1 and NDRG2 osphorylation is 6, and Thr366. ntified at Cell fication site y and was shown	
Background Re	ferences	1. Shimono, A. et al. (1 2. Zhou, D. et al. (1998 3. van Belzen, N. et al. 4. Kurdistani, S.K. et a 5. Park, H. et al. (2000 6. Li, J. and Kretzner, L 7. Stein, S. et al. (2004 8. Maruyama, Y. et al. 9. Nishio, S. et al. (200 10. Kalaydjieva, L. et a 11. Okuda, T. et al. (20 12. Taketomi, Y. et al. 13. Murray, J.T. et al. (20	 <i>Cancer Res</i> 58, 21 (1997) Lab Invest 7 (1998) Cancer Res Biochem Biophys (2003) Mol Cell Bio <i>J Biol Chem</i> 279, 4 (2006) Cancer Res Cancer Lett 264, (2000) Am J Hum Mol Cell Biol 24 (2007) J Immunol 17 	82-9. 7, 85-92. 58, 4439-44. <i>Res Commun</i> 276, 321-8 <i>ochem</i> 250, 91-105. 8930-40. 66, 6233-42. 36-43. <i>Genet</i> 67, 47-58. , 3949-56. 78, 7042-53.			

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 Mk: Monkey		
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.		
	XP is a registered trademark of Cell Signaling Technology, Inc.		
	All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.		
Limited Uses	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 purpose, 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 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.		