## #8947 Store at -20C

## Phospho-NDRG1 (Thr346) (D98G11) XP<sup>®</sup> Rabbit mAb (HRP Conjugate)



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

Applications: W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 46, 48	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q92597	<b>Entrez-Gene Id:</b> 10397	
Product Usage Information		<b>Application</b> Western Blotting			Dilution 1:1000		
Storage				nM sodium phosphate ( d 50% glycerol. Store at			
Specificity/Sensitivity		Phospho-NDRG1 (Thr346) (D98G11) XP <sup>®</sup> 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 <sup>®</sup> 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 <sup>®</sup> 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 <sup>®</sup> 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 <sup>®</sup> , 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	<ol> <li><i>Cancer Res</i> 58, 21</li> <li>(1997) Lab Invest 7</li> <li>(1998) Cancer Res</li> <li>Biochem Biophys</li> <li>(2003) Mol Cell Bio</li> <li><i>J Biol Chem</i> 279, 4</li> <li>(2006) Cancer Res</li> <li>Cancer Lett 264,</li> <li>(2000) Am J Hum</li> <li>Mol Cell Biol 24</li> <li>(2007) J Immunol 17</li> </ol>	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		
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