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Phospho-NDRG1 (Thr346) (D98G11) XP[®] Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-IC, FC-FP	H M R Mk	Endogenous	Rabbit IgG	#Q92597	10397
Product Usage Information		Application Immunofluorescence (Ir Flow Cytometry (Fixed/P			Dilution 1:50 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4° C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		Phospho-NDRG1 (Thr346) (D98G11) XP [®] Rabbit mAb (Alexa Fluor [®] 488 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 / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr346 of human NDRG1 protein.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent analysis in human cells. The 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 fa differentiation, and cell s variety of stress signals, calcium (2). Expression of and c-myc (1,6). During I for p53-mediated apopto cancer progression by plangiogenesis (3,4,6,8,9). motor and sensory neur NDRG1 in maintaining modell maturation and its dare substrates of SGK1, anot known (13). NDRG1	mily, which is composed of survival (1-5). NDRG1 is ultincluding DNA damage (4 of NDRG1 is elevated in NDRG1 is in DNA damage, NDRG1 is elevation of the DNA damage, NDRG1 is elevated at the DNA damage, NDRG1 is elevated in Lacetton leads to attenuated atthough the precise physical in NDRG1 is under the DNA damage.	of four members (ND piquitously expressed 4), hypoxia (5), and elember divided in a p53-depension shown that NI inhibiting growth, and the NDRG1 gene has buich is supported by sel survival (10,11). NDF and allergic responses siological role of SGK1 at Thr328, Ser330,	g1, RTP/rit42, and Proxy-1, is a RG1-4) that function in growth, and highly responsive to a evated levels of nickel and nd is negatively regulated by N-ndent fashion and is necessary DRG1 may also play a role in d modulating metastasis and een shown to cause hereditary tudies demonstrating the role of RG1 is upregulated during mast (12). Both NDRG1 and NDRG2 l-mediated phosphorylation is Thr346, Thr356, and Thr366.
Background References		1. Shimono, A. et al. (1999) <i>Mech Dev</i> 83, 39-52. 2. Zhou, D. et al. (1998) <i>Cancer Res</i> 58, 2182-9. 3. van Belzen, N. et al. (1997) <i>Lab Invest</i> 77, 85-92. 4. Kurdistani, S.K. et al. (1998) <i>Cancer Res</i> 58, 4439-44. 5. Park, H. et al. (2000) <i>Biochem Biophys Res Commun</i> 276, 321-8. 6. Li, J. and Kretzner, L. (2003) <i>Mol Cell Biochem</i> 250, 91-105. 7. Stein, S. et al. (2004) <i>J Biol Chem</i> 279, 48930-40. 8. Maruyama, Y. et al. (2006) <i>Cancer Res</i> 66, 6233-42. 9. Nishio, S. et al. (2008) <i>Cancer Lett</i> 264, 36-43. 10. Kalaydjieva, L. et al. (2000) <i>Am J Hum Genet</i> 67, 47-58. 11. Okuda, T. et al. (2004) <i>Mol Cell Biol</i> 24, 3949-56. 12. Taketomi, Y. et al. (2004) <i>Biochem J</i> 384, 477-88.			

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey

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