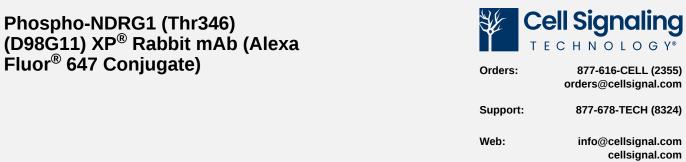
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Reactive IF-IC, FC-FP H M R		UniProt ID: Entrez-Gene Id: #Q92597 10397
Product Usage	Application	Dilution
Information	Immunofluorescence (Immunocytochemistry)	1:100
	Flow Cytometry (Fixed/Permeabilized)	1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide antibody. Protect from light. Do not freeze.	e and 2 mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	Phospho-NDRG1 (Thr346) (D98G11) XP [®] Rabbit mAb levels of NDRG1 when phosphorylated at Thr346. This phosphorylation sites on NDRG1 at positions Thr356 a	s antibody likely cross-reacts with other conserved
Source / Purification	Monoclonal antibody is produced by immunizing anima residues surrounding Thr346 of human NDRG1 proteir	
Product Description	This Cell Signaling Technology antibody is conjugated house for direct flow cytometry and immunofluorescent to exhibit the same species cross-reactivity as the unco Rabbit mAb #5482.	nt analysis in human cells. The antibody is expected
Background	N-myc downstream-regulated gene 1 (NDRG1), also to member of the NDRG family, which is composed of fou differentiation, and cell survival (1-5). NDRG1 is ubiqui of stress signals, including DNA damage (4), hypoxia (Expression of NDRG1 is elevated in N-myc defective n (1,6). During DNA damage, NDRG1 is induced in a p5 mediated apoptosis (4,7). Research studies have show progression by promoting differentiation, inhibiting grow (3,4,6,8,9). Nonsense mutation of the <i>NDRG1</i> gene has sensory neuropathy-Lom (HMSNL), which is supported maintaining myelin sheaths and axonal survival (10,11) and its deletion leads to attenuated allergic responses SGK1, although the precise physiological role of SGK1 NDRG1 is phosphorylated by SGK1 at Thr328, Ser330 SGK1 primes NDRG1 for phosphorylation by GSK-3.	ur members (NDRG1-4) that function in growth, itously expressed and highly responsive to a variety (5), and elevated levels of nickel and calcium (2). mice and is negatively regulated by N- and c-myc i3-dependent fashion and is necessary for p53- wn that NDRG1 may also play a role in cancer wth, and modulating metastasis and angiogenesis as been shown to cause hereditary motor and d by studies demonstrating the role of NDRG1 in L). NDRG1 is upregulated during mast cell maturation is (12). Both NDRG1 and NDRG2 are substrates of 1-mediated phosphorylation is not known (13).
Background References	 Shimono, A. et al. (1999) Mech Dev 83, 39-52. Zhou, D. et al. (1998) Cancer Res 58, 2182-9. van Belzen, N. et al. (1997) Lab Invest 77, 85-92. Kurdistani, S.K. et al. (1998) Cancer Res 58, 4439-4 Park, H. et al. (2000) Biochem Biophys Res Commu Li, J. and Kretzner, L. (2003) Mol Cell Biochem 250, Stein, S. et al. (2004) J Biol Chem 279, 48930-40. Maruyama, Y. et al. (2006) Cancer Res 66, 6233-42. Nishio, S. et al. (2008) Cancer Lett 264, 36-43. Kalaydjieva, L. et al. (2000) Am J Hum Genet 67, 47 Okuda, T. et al. (2004) Mol Cell Biol 24, 3949-56. Taketomi, Y. et al. (2007) J Immunol 178, 7042-53. Murray, J.T. et al. (2004) Biochem J 384, 477-88. 	un 276, 321-8. , 91-105. 2.

1/1/24, 7:15 AM	spho-NDRG1 (Thr346) (D98G11) XP® Rabbit mAb (Alexa Fluor® 647 Conjugate) (#7497) Datasheet W	/i
Species Reacti	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications K	IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivi	 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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