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Phospho-NDRG1 (Thr346) (D98G11) XP<sup>®</sup> Rabbit mAb (Alexa Fluor<sup>®</sup> 488 Conjugate)

Applications: Reacting IF-IC, FC-FP H M F		UniProt ID:Entrez-Gene Id:#Q9259710397
Product Usage Information	Application Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:50 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide a antibody. Protect from light. Do not freeze.	nd 2 mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	Phospho-NDRG1 (Thr346) (D98G11) XP <sup>®</sup> Rabbit mAb ( levels of NDRG1 when phosphorylated at Thr346. This a phosporylation sites on NDRG1 at positions Thr356 and	ntibody likely cross-reacts with other conserved
Source / Purification	Monoclonal antibody is produced by immunizing animals residues surrounding Thr346 of human NDRG1 protein.	with a synthetic phosphopeptide corresponding to
Product Description	This Cell Signaling Technology antibody is conjugated to house for direct flow cytometry and immunofluorescent a to exhibit the same species cross-reactivity as the uncon Rabbit mAb #5482.	nalysis in human cells. The antibody is expected
Background	N-myc downstream-regulated gene 1 (NDRG1), also terr member of the NDRG family, which is composed of four in differentiation, and cell survival (1-5). NDRG1 is ubiquitor of stress signals, including DNA damage (4), hypoxia (5), Expression of NDRG1 is elevated in N-myc defective mid (1,6). During DNA damage, NDRG1 is induced in a p53-c mediated apoptosis (4,7). Research studies have shown progression by promoting differentiation, inhibiting growth (3,4,6,8,9). Nonsense mutation of the <i>NDRG1</i> gene has sensory neuropathy-Lom (HMSNL), which is supported b maintaining myelin sheaths and axonal survival (10,11). I and its deletion leads to attenuated allergic responses (1 SGK1, although the precise physiological role of SGK1-n NDRG1 is phosphorylated by SGK1 at Thr328, Ser330, T SGK1 primes NDRG1 for phosphorylation by GSK-3.	members (NDRG1-4) that function in growth, usly expressed and highly responsive to a variety and elevated levels of nickel and calcium (2). the and is negatively regulated by N- and c-myc dependent fashion and is necessary for p53- that NDRG1 may also play a role in cancer n, and modulating metastasis and angiogenesis been shown to cause hereditary motor and y studies demonstrating the role of NDRG1 in NDRG1 is upregulated during mast cell maturation 2). Both NDRG1 and NDRG2 are substrates of nediated phosphorylation is not known (13).
Background References	<ol> <li>Shimono, A. et al. (1999) Mech Dev 83, 39-52.</li> <li>Zhou, D. et al. (1998) Cancer Res 58, 2182-9.</li> <li>van Belzen, N. et al. (1997) Lab Invest 77, 85-92.</li> <li>Kurdistani, S.K. et al. (1998) Cancer Res 58, 4439-44.</li> <li>Park, H. et al. (2000) Biochem Biophys Res Commun 1</li> <li>Li, J. and Kretzner, L. (2003) Mol Cell Biochem 250, 92</li> <li>Stein, S. et al. (2004) J Biol Chem 279, 48930-40.</li> <li>Maruyama, Y. et al. (2006) Cancer Res 66, 6233-42.</li> <li>Nishio, S. et al. (2008) Cancer Lett 264, 36-43.</li> <li>Kalaydjieva, L. et al. (2000) Am J Hum Genet 67, 47-5</li> <li>Okuda, T. et al. (2004) Mol Cell Biol 24, 3949-56.</li> <li>Taketomi, Y. et al. (2004) Biochem J 384, 477-88.</li> </ol>	l-105.

1/1/24, 3:36 PM	Phospho-NDRG1 (Thr346) (D98G11) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate) (#6992) Datasheet Wit	
Species Reactiv	<b>ity</b> Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications Ke	y IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivit	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogasterX: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horseGP: Guinea Pig Rab: rabbit All: all species expected	
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