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

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

| Applications: WB, IHC-P, IF-F, IF-IC, FC-FP | Reactivity : H M R Mk | | MW (kDa): 46, 48 | Source/Isotype: Rabbit IgG | UniProt ID: #Q92597 | Entrez-Gene Id: 10397 | |
|---|--|--|--|--|--|---|--|
| Product Usage Information | | Application | | Dilution | | | |
| mormation | | Western Blotting | | 1:1000 | | | |
| | | Immunohistochemistry Immunofluorescence (F | . , | | | 1:100 | |
| | | Immunofluorescence (I | , | nistry) | | · 1:100 · - 1:800 | |
| | | Flow Cytometry (Fixed/ | , | nioù y) | 1:200 | | |
| Storage | | Supplied in 10 mM sodiu 0.02% sodium azide. Sto | um HEPES (pH 7 | | µg/ml BSA, 50% glyce | | |
| | I | For a carrier-free (BSA a | and azide free) v | ersion of this product se | e product #89166. | | |
| Specificity / Sensit | , , , , , , , , , , , , , , , , , , , | | 6. This antibody | likely cross-reacts with | endogenous levels of NDRG1 when other conserved phosporylation sites on | | |
| Source / Purification | | Monoclonal antibody is p residues surrounding Th | | | synthetic phosphopept | ide corresponding to | |
| Background | | N-myc downstream-regu member of the NDRG fa differentiation, and cell s of stress signals, includii Expression of NDRG1 is (1,6). During DNA dama mediated apoptosis (4,7 progression by promotin (3,4,6,8,9). Nonsense m sensory neuropathy-Lon maintaining myelin shea and its deletion leads to SGK1, although the preo NDRG1 is phosphorylate SGK1 primes NDRG1 fo | mily, which is co survival (1-5). NE ng DNA damage s elevated in N-m ge, NDRG1 is in). Research stuc g differentiation, utation of the <i>NL</i> n (HMSNL), whic ths and axonal s attenuated aller cise physiologica ed by SGK1 at T or phosphorylatio | emposed of four member ORG1 is ubiquitously exp (4), hypoxia (5), and ele hyc defective mice and is iduced in a p53-depended lies have shown that ND inhibiting growth, and n ORG1 gene has been sh ch is supported by studies survival (10,11). NDRG1 gic responses (12). Both al role of SGK1-mediated inr328, Ser330, Thr346, on by GSK-3. | rs (NDRG1-4) that fun- pressed and highly res evated levels of nickel is negatively regulated ent fashion and is nece PRG1 may also play a nodulating metastasis nown to cause heredita es demonstrating the rr is upregulated during nNDRG1 and NDRG2 d phosphorylation is no Thr356, and Thr366. F | ction in growth, ponsive to a variety and calcium (2). by N- and c-myc essary for p53- role in cancer and angiogenesis ary motor and ole of NDRG1 in mast cell maturation are substrates of ot known (13). Phosphorylation by | |
| | | Phospho-NDRG1 (Thr34 Signaling Technology (C discovery. Phosphorylati be induced by insulin tre site knowledgebase, at v | ST) using Phosp on at Thr346 wa atment in multip | bhoScan [®] , CST's LC-MS as discovered using an A le cell lines. Please visit | S/MS platform for mod kt substrate antibody PhosphoSitePlus [®] , C | ification site and was shown to | |
| Background Refer | | 1. Shimono, A. et al. (199 2. Zhou, D. et al. (1998) 3. van Belzen, N. et al. (4. Kurdistani, S.K. et al. 5. Park, H. et al. (2000) 6. Li, J. and Kretzner, L. 7. Stein, S. et al. (2004) 8. Maruyama, Y. et al. (2 9. Nishio, S. et al. (2008) | Cancer Res 58, 1997) Lab Inves (1998) Cancer F Biochem Biophy (2003) Mol Cell J Biol Chem 279 006) Cancer Re | 2182-9. t 77, 85-92. Res 58, 4439-44. s Res Commun 276, 32 Biochem 250, 91-105. 9, 48930-40. s 66, 6233-42. | 1-8. | | |

| 3/24, 10:36 AM Phos | pho-NDRG1 (Thr346) (D98G11) XP® Rabbit mAb (#5482) Datasheet Without Images Cell Signalir 10. Kalaydjieva, L. et al. (2000) Am J Hum Genet 67, 47-58. 11. Okuda, T. et al. (2004) Mol Cell Biol 24, 3949-56. 12. Taketomi, Y. et al. (2007) J Immunol 178, 7042-53. 13. Murray, J.T. et al. (2004) Biochem J 384, 477-88. | | | | |
|---------------------------|---|--|--|--|--|
| 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. | | | | |
| Applications Key | WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) | | | | |
| Cross-Reactivity Key | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanog 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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