| Revision 1 | | |
|-------------------------------|-------------------------------|--|
| ម្តី TIGAR (D3F4A) Rabbit mAb | Сете | Ell Signaling |
| | Orders: | 877-616-CELL (2355) orders@cellsignal.com |
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| * | 3 Trask Lane Danvers Mass | achusetts 01923 USA |

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| Applications: W, IP | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 29 | Source/Isotype: Rabbit IgG | UniProt ID: #Q9NQ88 | Entrez-Gene Id 57103 | | |
|------------------------------|-------------------------|---|---|--|---|--|--|--|
| Product Usage Information | | Application Western Blotting Immunoprecipitation | | | Dilution 1:1000 1:50 | | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody. | | | | | | |
| Specificity/Sensitivity | | TIGAR (D3F4A) Rabbit mAb recognizes endogenous levels of total TIGAR protein. | | | | | | |
| Source / Purification | | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro171 of human TIGAR protein. | | | | | | |
| Background | | damage and oxidative (1). Activated p53 tran metabolism and the c bisphosphatase know cells from oxidative st oxygen species (ROS) induces autophagy an | stress. Activation scription factor rec ell cycle. One p53-i n as TIGAR. TP53-ir ress as it negativel in cells (2,3). Resea d apoptosis (4,5). a s show that TIGAR | ates the cellular respons of p53 can lead to cell cy ulates the expression of nducible gene is <i>C12orf</i> ducible glycolysis and a v regulates glycolysis an rch studies demonstrate nd its expression protect promotes cell cycle arre | cle arrest and DNA f multiple genes tha 5, which encodes fo poptosis regulator d reduces the produ t that knockdown of that colls from ROS-re | repair, or apoptosis it regulate cell r a fructose-2,6- (TIGAR) protects uction of reactive TIGAR expression elated cell death | | |
| Background Ro | eferences | 5. Bensaad, K. et al. (2 6. Wanka, C. et al. (201 | 006) <i>Cell</i> 126, 107- <i>.</i> <i>Cancer Metab</i> 2, 1. <i>iochem Biophys Re</i> 009) <i>EMBO J</i> 28, 30 (2) <i>J Biol Chem</i> 287 2012) <i>Proc Natl Aca</i> | 20. <i>s Commun</i> 437, 300-6. 15-26. 33436-46. <i>d Sci U S A</i> 109, 20491-6 | | | | |
| Species Reacti | vity | Species reactivity is de | termined by testin | g in at least one approve | ed application (e.g., | western blot). | | |
| Western Blot E | 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 K | ey | W: Western Blotting I | P: Immunoprecipit | ation | | | | |
| Cross-Reactivi | ty Key | H: Human | | | | | | |
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