## UBE2T (D2L7H) Rabbit mAb





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| Applications:<br>W, IP       | Reactivity:<br>H | <b>Sensitivity:</b><br>Endogenous  | <b>MW (kDa):</b><br>25  | <b>Source/Isotype:</b><br>Rabbit IgG  | UniProt ID:<br>#Q9NPD8   | Entrez-Gene Id:<br>29089   |  |
|------------------------------|------------------|--|---|---|--|--|--|
| Product Usage<br>Information | •                | <b>Application</b><br>Western Blotting<br>Immunoprecipitation  |   |   | <b>Dilution</b><br>1:1000<br>1:50  |  |  |
| Storage                      |                  | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than<br>0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.  |   |   |  |  |  |
| Specificity/Sen              | sitivity         | UBE2T (D2L7H) Rabbit mAb recognizes endogenous levels of total UBE2T protein.  |   |   |  |  |  |
| Source / Purifi              | cation           | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His150 of human UBE2T protein.  |   |   |  |  |  |
| Background                   |                  | Protein ubiquitination requires the concerted action of the E1, E2, and E3 ubiquitin-conjugating<br>enzymes. Ubiquitin is first activated through ATP-dependent formation of a thiol ester with ubiquitin-<br>activating enzyme E1. The activated ubiquitin is then transferred to a thiol group of ubiquitin-carrier<br>enzyme E2. The final step is the transfer of ubiquitin from E2 to an $\varepsilon$ -amino group of the target protein<br>lysine residue, which is mediated by ubiquitin-ligase enzyme E3 (1). |   |   |  |  |  |
|                              |                  | ubiquitin tagging of ta<br>important role in the F<br>repair through this pat<br>monoubiquitination, le<br>pathway (2-4). Additior   | rget proteins for d<br>anconi anemia pat<br>thway. Interaction<br>eading to UBE2T in<br>nal research details        | ) is an E2 family membe<br>egradation. Research str<br>hway and that UBE2T ex<br>between UBE2T and FAN<br>activation and negative<br>s upregulation of UBE2T<br>ossible involvement in th | udies indicate that L<br>opression is required<br>ICL appears to stim<br>regulation of the Fa<br>expression in breas | JBE2T plays an<br>d for normal DNA<br>ulate UBE2T auto<br>nconi anemia<br>t cancer cells and |  |
| Background R                 | eferences        | 1. Hershko, A. (1988) <i>J</i><br>2. Machida, Y.J. et al. (2<br>3. Ramaekers, C.H. et a<br>4. Zhang, Y. et al. (2007<br>5. Ueki, T. et al. (2009)<br>6. Hao, J. et al. (2008) 7  | 2006) <i>Mol Cell</i> 23, 5<br>al. (2011) <i>Radiothe</i><br>7) <i>J Genet Genomic</i><br><i>Cancer Res</i> 69, 875 | 89-96.<br>r <i>Oncol</i> 101, 190-7.<br>s 34, 573-80.<br>s2-60.   |  |  |  |
| 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<br>dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.  |   |   |  |  |  |
| Applications K               | ey               | W: Western Blotting IP: Immunoprecipitation  |   |   |  |  |  |
| Cross-Reactivi               | ty Key           | H: Human   |   |   |  |  |  |
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