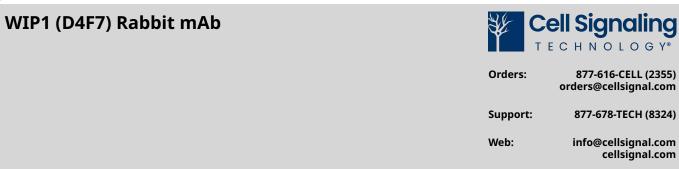
Revision	1
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Store at -20C

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

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 79	Source/Isotype: Rabbit IgG	UniProt ID: #O15297	Entrez-Gene Id: 8493	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
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		WIP1 (D4F7) Rabbit mAb recognizes endogenous levels of total WIP1 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly240 of human WIP1 protein.					
Background	ground Wild-type p53 induced phosphatase 1 (WIP1)/protein phosphatase magnesium-dependent 1 delta (ppm1d) is a member of the PP2C family of serine/threonine protein phosphatases. WIP1 was initiall identified as a p53 target gene, induced in response to ionizing radiation (1). Studies have shown that WIP1 is overexpressed in human cancers and is involved in the regulation of multiple DNA damage signaling pathways (reviewed in 2,3). WIP1 functions in returning cells to a homeostatic state followi DNA damage (4,5), as well as in maintaining p53-dependent homeostasis under non-stressed conditions (6). Researchers have shown that increased expression of WIP1 is associated with poor prognosis and lower survival rate in some human cancers (7,8). In contrast, overexpression of WIP1 p53-negative tumor cells sensitizes them to chemotherapy-induced apoptosis while protecting norm tissue during treatment (9).						
Background Re	eferences	 Fiscella, M. et al. (1997) <i>Proc Natl Acad Sci U S A</i> 94, 6048-53. Zhu, Y.H. and Bulavin, D.V. (2012) <i>Prog Mol Biol Transl Sci</i> 106, 307-25. Lu, X. et al. (2008) <i>Cancer Metastasis Rev</i> 27, 123-35. Lu, X. et al. (2005) <i>Genes Dev</i> 19, 1162-74. Cha, H. et al. (2010) <i>Cancer Res</i> 70, 4112-22. Park, H.K. et al. (2011) <i>Cell Cycle</i> 10, 2574-82. Liang, C. et al. (2012) <i>Brain Res</i> 1444, 65-75. Satoh, N. et al. (2011) <i>Cancer Sci</i> 102, 1101-6. Goloudina, A.R. et al. (2012) <i>Proc Natl Acad Sci U S A</i> 109, E68-75. 					
Species Reactiv	/ity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Ke	ey	W: Western Blotting					
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat Mk: Monkey					
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