န္မွ MTHFD2 (D8W9U) Rabbit mAb





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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 35	Source/Isotype: Rabbit IgG	UniProt ID: #P13995	Entrez-Gene Id: 10797	
Product Usage Information	2	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/Ser	nsitivity	MTHFD2 (D8W9U) Rabbit mAb recognizes endogenous levels of total MTHFD2 protein.					
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu340 of human MTHFD2 protein.					
Background		MTHFD2 is a bifunctional methylenetetrahydrofolate dehydrogenase/cyclohydrolase involved in mitochondrial folate metabolism (1). MTHFD2 expression is developmentally regulated, as it is expressed in embryos but not in most adult tissues. Recent research studies have shown that MTHFD2 is consistently overexpressed in many cancer types and correlated with poor survival in breast cancer (2-5). Overexpression of MTHFD2 promotes cell proliferation while its depletion induces cell death in human cancer cells (6).					
Background R	eferences	1. Christensen, K.E. an 2. Lehtinen, L. et al. (20 3. Nilsson, R. et al. (20 4. Liu, F. et al. (2014) <i>T.</i> 5. Tedeschi, P.M. et al. 6. Gustafsson Sheppar	013) <i>Oncotarget</i> 4, 14) <i>Nat Commun</i> 5, <i>umour Biol</i> 35, 868 (2015) <i>Mol Cancer</i>	3128. 5-90. <i>Res</i> 13, 1361-6.	93-410.		
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	Buffer	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 K	ey	W: Western Blotting I	P: Immunoprecipita	ition			
Cross-Reactivi	ty Key	H: Human					
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