MTHFD2 (D8W9U) Rabbit mAb



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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 35	Source/Isotype: Rabbit IgG	UniProt ID: #P13995	Entrez-Gene Id: 10797
Product Usage Information	Ар	plication		Dilution		
	We	stern Blotting			1:1000	
	Imr	munoprecipitation			1:50	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.				
Specificity / Sensit	tivity MTH	MTHFD2 (D8W9U) Rabbit mAb recognizes endogenous levels of total MTHFD2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu340 of human MTHFD2 protein.				
Background	mito in ei ovei Ove	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 Refer	2. Lo 3. N 4. Li 5. Te	hristensen, K.E. and ehtinen, L. et al. (20 ilsson, R. et al. (201 u, F. et al. (2014) Tu edeschi, P.M. et al. (ustafsson Sheppard	13) Oncotarget 4 4) Nat Commun Imour Biol 35, 86 2015) Mol Cance	5, 3128. 685-90. er Res 13, 1361-6.	, 393-410.	

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster 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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