MTH1 (D6V4O) Rabbit mAb





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Applications: W, IP	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit IgG	UniProt ID: #P36639	Entrez-Gene Id: 4521		
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:200			
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.						
		MTH1 (D6V4O) Rabbit mAb recognizes endogenous levels of total MTH1 protein. Based on the sequence of the immunogenic peptide, this antibody is expected to recognize all isoforms of MTH1.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala70 of human MTH1 protein.						
Background		MutT Homolog 1 (MTH1), an oxidized purine nucleoside triphosphatase, hydrolyzes potentially mutagenic oxidized nucleotide triphosphates, preventing their accumulation in nucleotide pools and their incorporation into DNA and RNA (1). In addition to its function in sanitizing the cell's nucleotide pool, MTH1 has been shown to have anti-proliferative effects in RAS-transformed tumors (2). Researchers have shown that, while not essential in normal cells, MTH1 is required for cancer cell survival due to increased oxidative damage, and that inhibition of MTH1 activity suppresses cancer growth (3,4).						
Background R	eferences	1. Nakabeppu, Y. et al. (2006) <i>DNA Repair (Amst)</i> 5, 761-72. 2. Giribaldi, M.G. et al. (2015) <i>Oncotarget</i> 6, 11519-29. 3. Gad, H. et al. (2014) <i>Nature</i> 508, 215-21. 4. Huber, K.V. et al. (2014) <i>Nature</i> 508, 222-7.						
Species Reacti	ivity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot I	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 IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human R: Rat						
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