#86039

MGMT (E9O4V) Rabbit mAb



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Applications: W, IP, IHC-P	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit IgG	UniProt ID: #P16455	Entrez-Gene Id: 4255		
Product Usage Information	2	Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin)			Dilution 1:1000 1:50 1:100			
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	MGMT (E9O4V) Rabbit mAb recognizes endogenous levels of total MGMT protein.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu12 of human MGMT protein.						
Background		MGMT (O-6-methylguanine-DNA methyltransferase) is a DNA repair enzyme that participates in a suicide reaction that specifically removes methyl or alkyl groups from the O(6) position of guanine, restoring guanine to its normal form without causing DNA breaks (1). MGMT protects cells from alkylating toxins, and is an important factor in drug resistance to alkylating therapeutic agents (2,3). It is ubiquitously expressed in normal human tissues (4) and is overexpressed in many types of human tumors, but epigenetically silenced in other tumors. MGMT silencing is a marker associated with poor prognosis, but is a good predictive marker for response to alkylating agent chemotherapy (5).						
Background R	eferences	1. Pegg, A.E. (2000) <i>Mutat. Res.</i> 462, 83-100. 2. Bobola, M.S. et al. (2005) <i>Clin. Cancer Res.</i> 11, 2747-2755. 3. Pollack, I.F. et al. (2006) <i>J. Clin. Oncol.</i> 24, 3431-3437. 4. Gerson, S.L. et al. (1986) <i>Carcinogenesis</i> 7, 745-749. 5. Soejima, H. et al. (2005) <i>Biochem. Cell Biol.</i> 83, 429-437.						
Species Reacti	vity	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 IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivi	ty Key	H: Human Mk: Monkey						
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