MGMT Antibody



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

Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit	UniProt ID: #P16455	Entrez-Gene Id: 4255
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 and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		MGMT Antibody detects endogenous levels of total MGMT protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids near the amino terminus of human MGMT. Antibodies are purified by peptide affinity chromatography.				
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 References		1. Pegg, A.E. (2000) <i>M</i> 2. Bobola, M.S. et al. (3. Pollack, I.F. et al. (2) 4. Gerson, S.L. et al. (5. Soejima, H. et al. (2)	(2005) <i>Clin. Cancer F</i> 2006) <i>J. Clin. Oncol.</i> 2 1986) <i>Carcinogenes.</i>	Res. 11, 2747-2755. 4, 3431-3437. is 7, 745-749.		
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		W: Western Blotting				
Cross-Reactivity Key		H: Human Mk: Monkey				
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