2739 Store at -20C

MGMT Antibody



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Applications: WB	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 21	Source: Rabbit	UniProt ID: #P16455	Entrez-Gene Id: 4255	
Product Usage Information	Ар	plication			Dilution		
	We	estern Blotting			1:1000		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sens	sitivity MG	MGMT Antibody detects endogenous levels of total MGMT protein.					
Source / Purifica	ami	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	reac gua and exp epig	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 Ref	2. B 3. P 4. G	obola, M.S. et al. (2 ollack, I.F. et al. (20 terson, S.L. et al. (1	Mutat. Res. 462, 83-100. (2005) Clin. Cancer Res. 11, 2747-2755. 2006) J. Clin. Oncol. 24, 3431-3437. (1986) Carcinogenesis 7, 745-749. 2005) Biochem. Cell Biol. 83, 429-437.				

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

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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