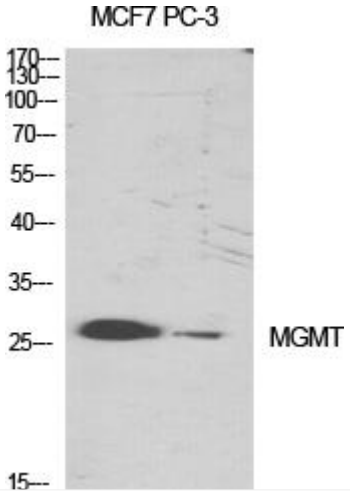
MGMT Monoclonal Antibody

Catalog No	YP-mAb-00449
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	MGMT
Protein Name	Methylated-DNA--protein-cysteine methyltransferase
Immunogen	The antiserum was produced against synthesized peptide derived from human MGMT. AA range:1-50
Specificity	MGMT Monoclonal Antibody detects endogenous levels of MGMT protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MGMT; Methylated-DNA--protein-cysteine methyltransferase; 6-O-methylguanine-DNA methyltransferase; MGMT; O-6-methylguanine-DNA-alkyltransferase
Observed Band	22kD
Cell Pathway	Nucleus.
Tissue Specificity	Cerebellum,Epithelium,Placenta,
Function	catalytic activity:DNA (containing 6-O-methylguanine) + protein L-cysteine = DNA (without 6-O-methylguanine) + protein S-methyl-L-cysteine.,cofactor:Binds 1 zinc ion.,function:Involved in the cellular defense against the biological effects of O6-methylguanine (O6-MeG) in DNA. Repairs alkylated guanine in DNA by stoichiometrically transferring the alkyl group at the O-6 position to a cysteine residue in the enzyme. This is a suicide reaction: the enzyme is irreversibly inactivated.,similarity:Belongs to the MGMT family.,
Background	Alkylating agents are potent carcinogens that can result in cell death, mutation and cancer. The protein encoded by this gene is a DNA repair protein that is involved in cellular defense against mutagenesis and toxicity from alkylating agents. The protein catalyzes transfer of methyl groups from O(6)-alkylguanine and other methylated moieties of the DNA to its own molecule, which repairs the

	toxic lesions. Methylation of the genes promoter has been associated with several cancer types, including colorectal cancer, lung cancer, lymphoma and glioblastoma. [provided by RefSeq, Sep 2015],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using MGMT Monoclonal Antibody