ARG62544
anti-MGMT antibody [MT 3.1]

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [MT 3.1] recognizes MGMT
Tested Reactivity	Hu
Tested Application	FACS, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	MT 3.1
Isotype	IgG1
Target Name	MGMT
Species	Human
Immunogen	Purified recombinant human MGMT protein
Conjugation	Un-conjugated
Alternate Names	O-6-methylguanine-DNA-alkyltransferase; Methylated-DNA--protein-cysteine methyltransferase; MGMT; EC 2.1.1.63; 6-O-methylguanine-DNA methyltransferase

Application Instructions

Application table

Application	Dilution
FACS	Assay-dependent
IHC-P	1:10 - 1:20
WB	0.5 - 1 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Raji cells. Colon CA

Properties

Form	Liquid
Purification	Protein G purified
Buffer	1X PBS buffer with < 0.1% sodium azide.
Preservative	< 0.1% sodium azide.
Concentration	2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 4255 Human Swiss-port # P16455 Human
Gene Symbol	MGMT
Gene Full Name	O-6-methylguanine-DNA methyltransferase
Background	Alkylating agents are potent carcinogens that can result in cell death, mutation and cancer. MGMT 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]
Function	MGMT involved in the cellular defense against the biological effects of O6-methylguanine (O6-MeG) and O4-methylthymine (O4-MeT) in DNA. Repairs the methylated nucleobase in DNA by stoichiometrically transferring the methyl group to a cysteine residue in the enzyme. This is a suicide reaction: the enzyme is irreversibly inactivated. [UniProt]
Research Area	Gene Regulation antibody
Calculated Mw	22 kDa
Cellular Localization	Nucleus