

## Rabbit anti-Human, Rat MGMT Polyclonal Antibody | anti-MGMT antibody

MGMT Antibody

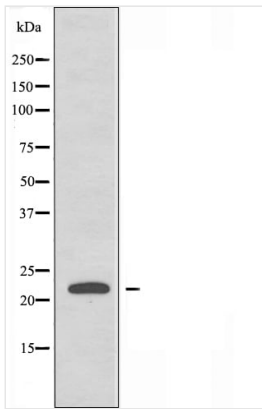
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                 |
|-----------|--------|------------|--------------------------------------------------------------|
| AAA324305 | Rabbit | Human, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Western Blot |

### PRODUCT SYNONYMS

MGMT; Polyclonal Antibody; MGMT Antibody; 6 O methylguanine DNA methyltransferase; 6-O-methylguanine-DNA methyltransferase; Agat; AGT; A1267024; EC 2.1.1.63; Methylated DNA protein cysteine methyltransferase; Methylated-DNA--protein-cysteine methyltransferase; Methylguanine DNA methyltransferase; MGC107020; MGMT\_HUMAN; O 6 methylguanine DNA alkyltransferase; O 6 methylguanine DNA methyltransferase; O-6-methylguanine-DNA methyltransferase; O-6-methylguanine-DNA-alkyltransferase; anti-MGMT antibody

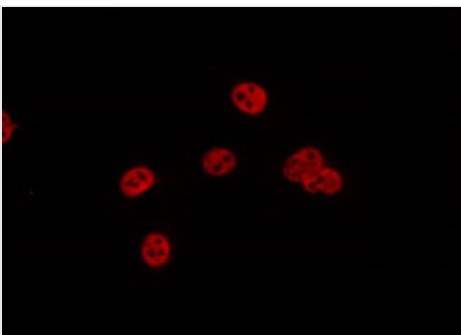
### PRODUCT SPECIFICATIONS

|                                                |                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                        |
| Reactivity                                     | Human, Rat                                                                                    |
| Clonality                                      | Polyclonal                                                                                    |
| Isotype                                        | IgG                                                                                           |
| Specificity                                    | MGMT antibody detects endogenous levels of total MGMT                                         |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                  | 1mg/ml (varies by lot)                                                                        |
| Sequence Length                                | 207                                                                                           |
| Applicable Applications for anti-MGMT antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                  |
| Immunogen                                      | A synthesized peptide                                                                         |
| Subcellular Location                           | Nucleus.                                                                                      |
| Conjugation                                    | Unconjugated                                                                                  |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                             |



WB (Western Blot)

Western blot analysis of extracts from Jurkat cells, using MGMT antibody.



IF (Immunofluorescence)

AAA324305 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-MGMT antibody | Function: 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. Similarity: Belongs to the MGMT family. |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                               |
|----------------------------------|---------------------------------------------------------------|
| NCBI GI #                        | 530394832                                                     |
| NCBI GeneID                      | 4255                                                          |
| NCBI Accession #                 | XP_005252739.1                                                |
| NCBI GenBank Nucleotide #        | XM_005252682.2                                                |
| UniProt Accession #              | P16455; Q5VY78                                                |
| Molecular Weight                 | Observed: 22 kD<br>Predicted: 22 kDa                          |
| NCBI Official Full Name          | methylated-DNA--protein-cysteine methyltransferase isoform X1 |
| NCBI Official Synonym Full Names | O-6-methylguanine-DNA methyltransferase                       |
| NCBI Official Symbol             | MGMT                                                          |
| NCBI Protein Information         | methylated-DNA--protein-cysteine methyltransferase            |
| UniProt Protein Name             | Methylated-DNA--protein-cysteine methyltransferase            |
| UniProt Gene Name                | MGMT                                                          |
| UniProt Synonym Gene Names       | MGMT                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.