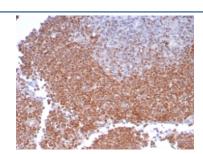


# MGMT Antibody [clone MGMT/8186R] (V4132)

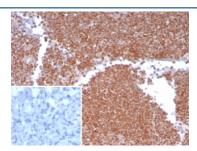
| Catalog No.    | Formulation   | Size   |
|----------------|---|--------|
| V4132-100UG    | 0.2~mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V4132-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug  |
| V4132SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free                          | 100 ug |

## **Bulk quote request**

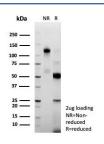
| Availability       | 1-3 business days  |
|--------------------|--|
| Species Reactivity | Human  |
| Format             | Purified   |
| Clonality          | Monoclonal (mouse origin)                                  |
| Isotype            | Rabbit IgG, kappa  |
| Clone Name         | MGMT/8186R   |
| Purity             | Protein A/G affinity                                       |
| UniProt            | P16455   |
| Localization       | Nucleus  |
| Applications       | Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT |
| Limitations        | This MGMT antibody is available for research use only.     |



IHC staining of FFPE human lymph node tissue with MGMT antibody (clone MGMT/8186R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human lymph node tissue with MGMT antibody (clone MGMT/8186R). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free MGMT antibody (clone MGMT/8186R) as confirmation of integrity and purity.

### **Description**

Cancer chemotherapeutic alkylating agents (e.g. BCNU,) act by inducing formation of lethal cross-links at the O6-alkylguanine position in DNA. MGMT transfers alkyl adducts from the O6- position of guanine in DNA (prior to cross-link formation) to a cysteine residue in its own sequence, thereby restoring DNA to its intact state. This transfer inactivates the MGMT enzyme and is irreversible; hence the level of MGMT in a cell is directly proportional to the level of DNA damage it can tolerate. In normal tissues, MGMT acts as a suppressor of mutation and carcinogenesis. Tumors with high levels of MGMT are likely to be drug resistant.

#### **Application Notes**

Optimal dilution of the MGMT antibody should be determined by the researcher.

#### **Immunogen**

A recombinant partial protein (within amino acids 1-100) from the human protein was used as the immunogen for the MGMT antibody.

#### **Storage**

Aliquot the MGMT antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.