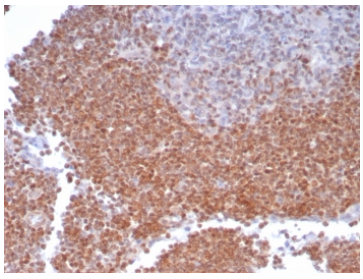
# MGMT Antibody [clone MGMT/8186R] (V4132)

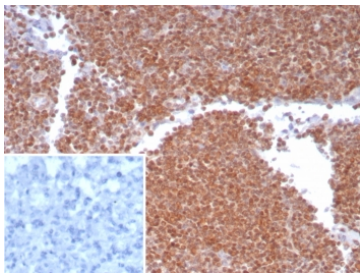
| Catalog No. | Formulation | Size |
|---|---|---|
| V4132-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V4132-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V4132SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium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

**Bulk quote request**

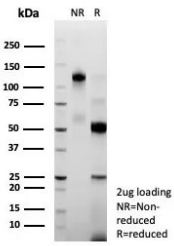
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Rabbit |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Rabbit IgG, kappa |
| **Clone Name** | MGMT/8186R |
| **Purity** | Protein A/G affinity |
| **UniProt** | 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.


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