

Recombinant MGMT (Marker of Suppressor of Mutation and Carcinogenesis) Antibody

Rabbit Monoclonal Antibody [Clone MGMT/8364R]

| Catalog No | Format | Size |
|------------------|---|--------|
| 4255-RBM11-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 4255-RBM11-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 4255-RBM11-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

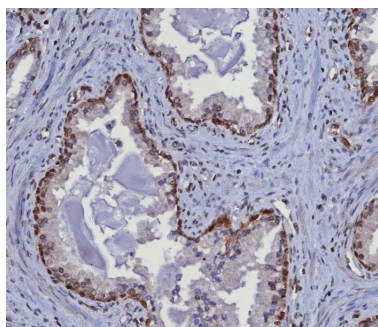
| Applications | Tested Dillution | Note |
|----------------------------|------------------|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB) | 2-4ug/ml | |

Product Details

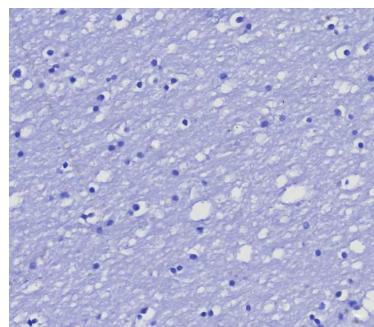
| | |
|-------------------------------|---|
| Clone | MGMT/8364R |
| Gene Name | MGMT |
| Immunogen | Recombinant fragment (around aa1-100) of human MGMT (exact sequence is proprietary) |
| Host | Rabbit |
| Clonality | Monoclonal |
| Isotype / Light Chain | IgG / Kappa |
| Mol. Weight of Antigen | 21.646 kDa |
| Cellular Localization | Nucleus |
| Species Reactivity | Human |
| Positive Control | Jurkat, MCF-7, LNCaP, Hep G2 and human liver. Human tonsil or stomach (IHC). |

*Optimal dilution for a specific application should be determined.

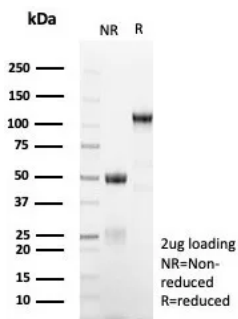
Product Images for Recombinant MGMT (Marker of Suppressor of Mutation and Carcinogenesis) Antibody



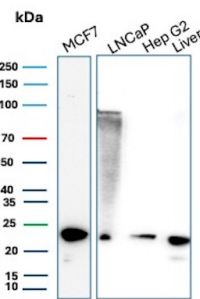
Formalin-fixed, paraffin-embedded human prostate stained with MGMT Mouse Monoclonal Antibody (MGMT/8364R). HIER: Tris/EDTA, pH9.0, 45min. 2: HRP-polymer, 30min. DAB, 5min.



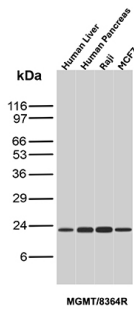
IHC analysis of formalin-fixed, paraffin-embedded human brain. Negative tissue control using MGMT/8364R at 2ug/ml in PBS for 30min RT. HIER: Tris/EDTA, pH9.0, 45min. 2: HRP-polymer, 30min. DAB, 5min.



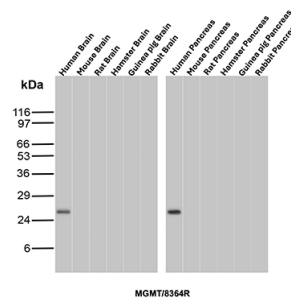
SDS-PAGE Analysis of Purified MGMT Mouse Monoclonal Antibody (MGMT/8364R). Confirmation of Purity and Integrity of Antibody.



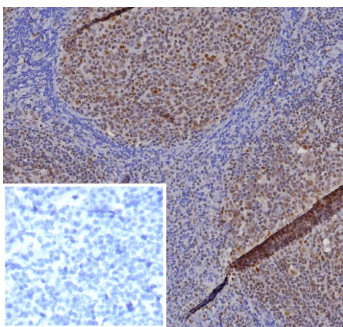
Western Blot Analysis of MCF-7, LNCaP, Hep G2 and human liver lysates using MGMT Recombinant Rabbit Monoclonal Antibody (MGMT/8364R).



Western Blot Analysis of Human Liver, Human Pancreas, Raji and MCF7 lysates using MGMT Recombinant Rabbit Monoclonal Antibody (MGMT/8364R).



Western Blot Analysis of Brain and Pancreas lysates of different lysates using MGMT Recombinant Rabbit Monoclonal Antibody (MGMT/8364R).



Formalin-fixed, paraffin-embedded human tonsil stained with MGMT Mouse Monoclonal Antibody (MGMT/8364R). HIER: Tris/EDTA, pH9.0, 45min. 2: HRP-polymer, 30min. DAB, 5min.

Specificity & Comments

Cancer chemotherapeutic alkylating agents (e.g. BCNU,) act by inducing formation of lethal crosslinks at the O6 position of alkyguanine position in DNA. MGMT transfers alkyl adducts from the O6 position of guanine in DNA (prior to crosslink 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

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.