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

Rabbit Monoclonal Antibody [Clone MGMT/8319R]

Catalog No	Format	Size
4255-RBM10-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4255-RBM10-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4255-RBM10-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

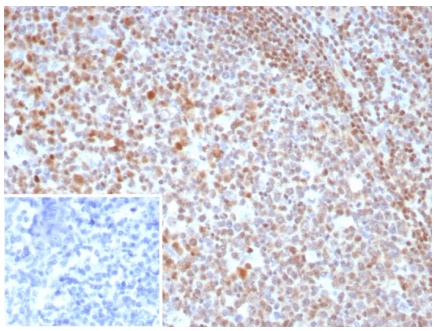
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

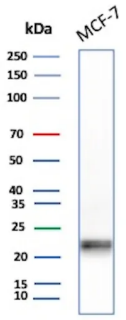
Clone	MGMT/8319R
Gene Name	MGMT
Immunogen	Purified His-tagged MGMT protein
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	21.646 kDa
Cellular Localization	Nucleus
Species Reactivity	Human
Positive Control	MCF-7, LNCaP, Hep G2 and human liver, Jurkat. Human tonsil or stomach (IHC).

**Optimal dilution for a specific application should be determined.*

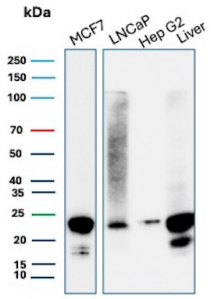
Product Images for Recombinant MGMT (Marker of Suppressor of Mutation and Carcinogenesis) Antibody



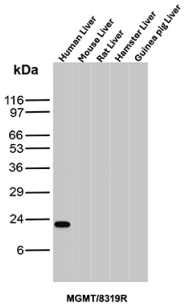
Formalin-fixed, paraffin-embedded human tonsil stained with MGMT Mouse Monoclonal Antibody (MGMT/8319R). Inset: PBS instead of primary antibody; secondary only negative control.



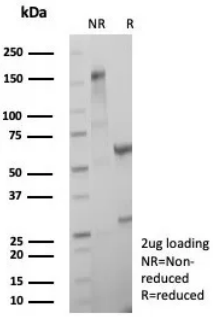
Western Blot Analysis of MCF-7 lysate using MGMT Rabbit Recombinant Monoclonal Antibody (MGMT/8319R).



Western Blot Analysis of MCF-7, LNCaP, Hep G2 and human liver lysatesusing MGMT Recombinant Rabbit Monoclonal Antibody (MGMT/8319R).



Western blot analysis of Human Liver, Mouse Liver, Rat Liver, Hamster Liver and Guinea pig Liver lysates using MGMT Recombinant Rabbit Monoclonal Antibody (MGMT/8319R).



SDS-PAGE Analysis of Purified MGMT Mouse Monoclonal Antibody (MGMT/8319R). Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

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

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.

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.