

# Product Datasheet

## MGMT Antibody (MT 23.2) - Azide and BSA Free NBP2-80847

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-80847**

MGMT Antibody (MT 23.2) - Azide and BSA Free

| Product Information         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit Size                   | 0.1 ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Concentration               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Storage                     | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clonality                   | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Clone                       | MT 23.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Preservative                | No Preservative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Isotype                     | IgG2b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity                      | Protein G purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Buffer                      | PBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Target Molecular Weight     | 24 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product Description         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Description                 | Novus Biologicals Mouse MGMT Antibody (MT 23.2) - Azide and BSA Free (NB100-168) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and Simple Western. All Novus Biologicals antibodies are covered by our 100% guarantee.                                                                                                                                                                                                                                                                                                                                              |
| Host                        | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene ID                     | 4255                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gene Symbol                 | MGMT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Species                     | Human, Mouse (Negative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity Notes            | This antibody is mouse reactivity negative.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Immunogen                   | Recombinant human MGMT (O6-methylguanine-DNA methyltransferase) purified from E. coli [UniProt# P16455]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product Application Details |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Applications                | Western Blot, Simple Western, Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, CyTOF-ready                                                                                                                                                                                                                                                                                                                                                                                                             |
| Recommended Dilutions       | Western Blot 1:1000, Simple Western 1:1000, Flow Cytometry 1-2 ug/ml, Immunohistochemistry 1:500-1000, Immunocytochemistry/ Immunofluorescence 1:500, Immunohistochemistry-Paraffin 1:500-1:1000, Flow (Intracellular), CyTOF-ready                                                                                                                                                                                                                                                                                                                                                       |
| Application Notes           | <p>This MGMT (MT 23.2) antibody is useful for Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry on paraffin-embedded sections and Western Blot. In WB, a band at approx. 24 kDa can be seen. In ICC/IF, strong staining has been seen in CEM cells and no signal has been seen in TK6 cells.</p> <p>In Simple Western only 10 - 15 ul of the recommended dilution is used per data point.<br/>See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: antibody dilution of 1:1000. Separated by Size-Wes, Sally Sue/Peggy Sue.</p> |

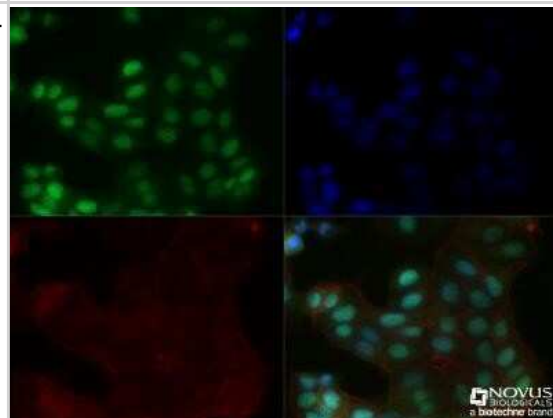


## Images

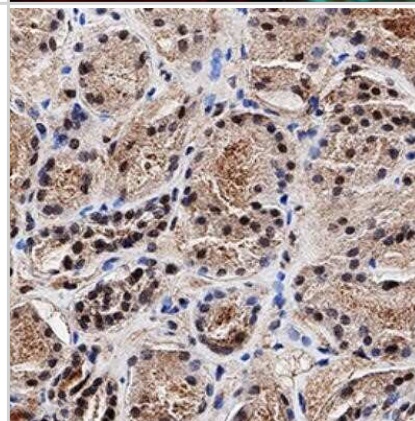
Western Blot: MGMT Antibody (MT 23.2) - Azide and BSA Free [NBP2-80847] - Detection of MGMT in MCF7 lysate using NB100-168 at 1:1000 dilution. Image from the standard format of this antibody.

250>  
150>  
100>  
75>  
50>  
37>  
25>  
20>  
15>  
10>

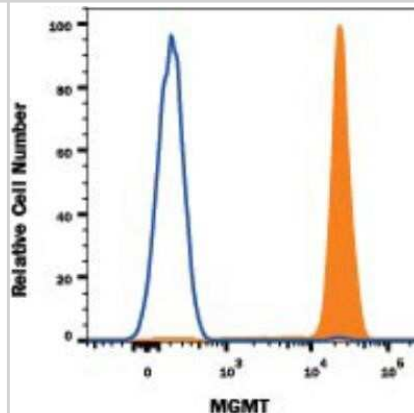
Immunocytochemistry/Immunofluorescence: MGMT Antibody (MT 23.2) - Azide and BSA Free [NBP2-80847] - MCF7 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-MGMT (MT 23.2) NB100-168 at a 1:200 dilution overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Actin was counterstained with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.



Immunohistochemistry-Paraffin: MGMT Antibody (MT 23.2) - Azide and BSA Free [NBP2-80847] - IHC analysis of a formalin fixed paraffin-embedded (FFPE) human kidney using 1:2000 conc. of MGMT antibody (clone MT 23.2) on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium



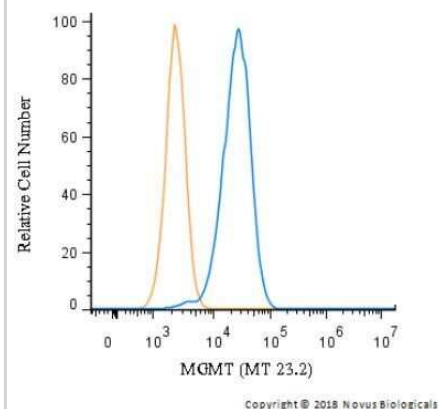
Flow Cytometry: MGMT Antibody (MT 23.2) - Azide and BSA Free [NBP2-80847] - Detection of MGMT in Human Jurkat Cell Line by Flow Cytometry. Human Jurkat cell line was stained with Mouse Anti- MGMT Monoclonal Antibody (Catalog # NB100-168, filled histogram), or Mouse IgG2B isotype control (Catalog # MAB0041, open histogram) followed by APC-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). To facilitate intracellular staining, cells were fixed with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012). Images may not be copied, printed or otherwise disseminated without express written permission of Novus Biologicals a Bio-Techne brand. Image from the standard format of this antibody.



Immunocytochemistry/Immunofluorescence: MGMT Antibody (MT 23.2) - Azide and BSA Free [NBP2-80847] - Detection of MGMT (Green) in HeLa cells using NB100-168 at a 1:50 dilution. Nuclei (Blue) are counterstained using Hoechst 33258. Image from the standard format of this antibody.



Flow Cytometry: MGMT Antibody (MT 23.2) - Azide and BSA Free [NBP2-80847] - An intracellular stain was performed on HeLa cells with MGMT Antibody (MT 23.2) antibody NB100-168 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by mouse F(ab)2 IgG (H+L) PE-conjugated secondary antibody (F0102B, R&D Systems). Image from the standard format of this antibody.



Simple Western: MGMT Antibody (MT 23.2) - Azide and BSA Free [NBP2-80847] - Simple Western lane view shows a specific band for MGMT in 0.2 mg/ml of MCF-7 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. Image from the standard format of this antibody.





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### **Products Related to NBP2-80847**

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|            |                                                         |
|------------|---------------------------------------------------------|
| HAF007     | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B    | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP2-27231 | Mouse IgG2b Isotype Control (MPC-11)                    |
| NBC1-18534 | Recombinant Human MGMT His Protein                      |

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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