

# 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

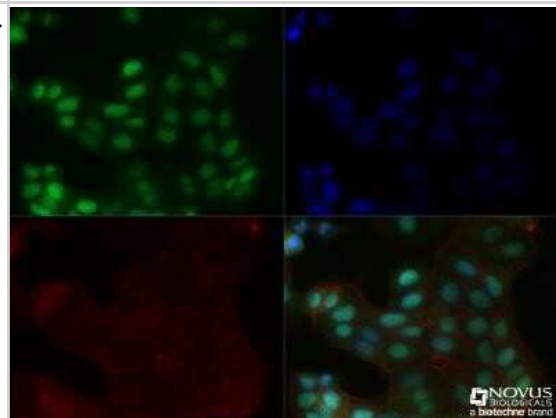
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	MT 23.2
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2b
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	24 kDa
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	4255
<b>Gene Symbol</b>	MGMT
<b>Species</b>	Human, Mouse (Negative)
<b>Reactivity Notes</b>	This antibody is mouse reactivity negative.
<b>Immunogen</b>	Recombinant human MGMT (O6-methylguanine-DNA methyltransferase) purified from E. coli [UniProt# P16455]
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready
<b>Recommended Dilutions</b>	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
<b>Application Notes</b>	<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. Separated by Size-Wes, Sally Sue/Peggy Sue.</p>

## Images

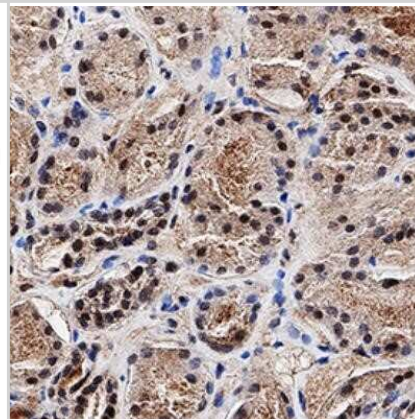
Western Blot: MGMT Antibody (MT 23.2) - Azide and BSA Free [NBP2-80847] - Detection of MGMT in MCF7 lysate using NB100-168 at 1:1000 dilution. Image from the standard format of this antibody.

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

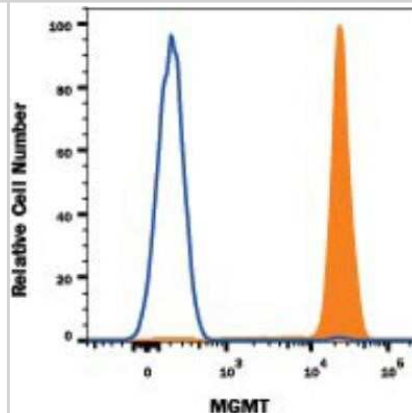
Immunocytochemistry/Immunofluorescence: MGMT Antibody (MT 23.2) - Azide and BSA Free [NBP2-80847] - MCF7 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-MGMT (MT 23.2) NB100-168 at a 1:200 dilution 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



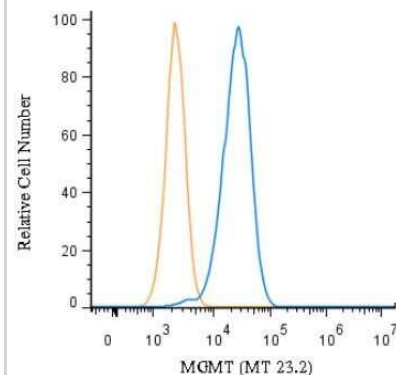
Flow Cytometry: MGMT Antibody (MT 23.2) - Azide and BSA Free [NBP2-80847] - Detection of MGMT in Human Jurkat Cell Line by Flow Cytometry. Human Jurkat cell line was stained with Mouse Anti- MGMT Monoclonal Antibody (Catalog # NB100-168, filled histogram), or Mouse IgG2B isotype control (Catalog # MAB0041, 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)<sub>2</sub> IgG (H+L) PE-conjugated secondary antibody (F0102B, R&D Systems). Image from the standard format of this antibody.



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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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