

Product datasheet for **TA309748**

MGMT Mouse Monoclonal Antibody [Clone ID: MT 23.2]

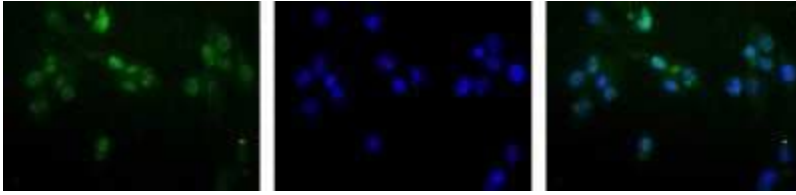
Product data:

Product Type:	Primary Antibodies
Clone Name:	MT 23.2
Applications:	CyTOF-ready, FC, ICC/IF, IHC, Simple Western, WB
Recommended Dilution:	Immunohistochemistry: 1:500-1000, Immunohistochemistry-Paraffin: 1:500-1:1000, Immunocytochemistry/ Immunofluorescence: 1:500, Western Blot: 1:1000, Simple Western: 1:1000, Flow Cytometry: 1-2 ug/mL, Flow (Intracellular), CyTOF-ready
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant human MGMT (O6-methylguanine-DNA methyltransferase) purified from E. coli
Formulation:	0.1% Sodium Azide
Purification:	Ascites
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	O-6-methylguanine-DNA methyltransferase
Database Link:	NP_002403 Entrez Gene 4255 Human P16455
Synonyms:	methylguanine-DNA methyltransferase; O-6-methylguanine-DNA methyltransferase; O6-methylguanine-DNA methyltransferase; OTTHUMP00000020741
Protein Families:	Druggable Genome



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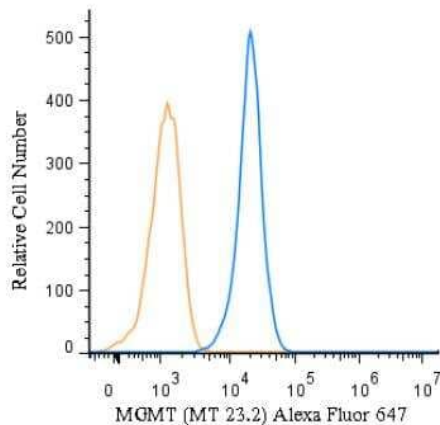
Product images:



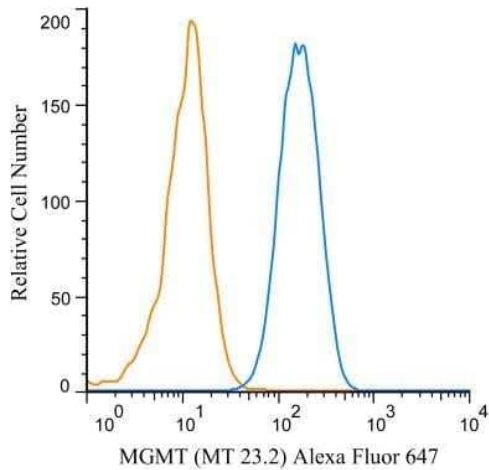
Immunocytochemistry/Immunofluorescence: MGMT Antibody (MT 23.2) TA309748 - Detection of MGMT (Green) in HeLa cells using TA309748 at a 1:50 dilution. Nuclei (Blue) are counterstained using Hoechst 33258.



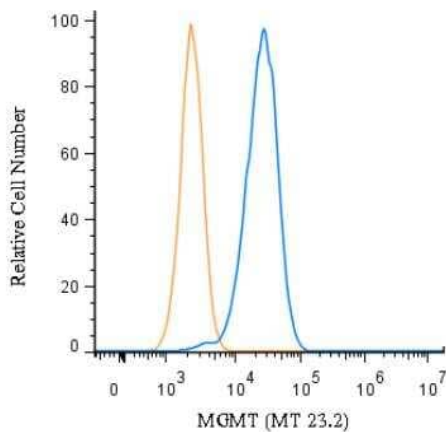
Simple Western: MGMT Antibody (MT 23.2) TA309748 - Simple Western lane view shows a specific band for MGMT in 0.2 mg/ml of MCF-7 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Flow (Intracellular): MGMT Antibody (MT 23.2) TA309748 - An intracellular stain was performed on Jurkat cells with MGMT Antibody (MT 23.2) antibody TA309748AF647 (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 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.

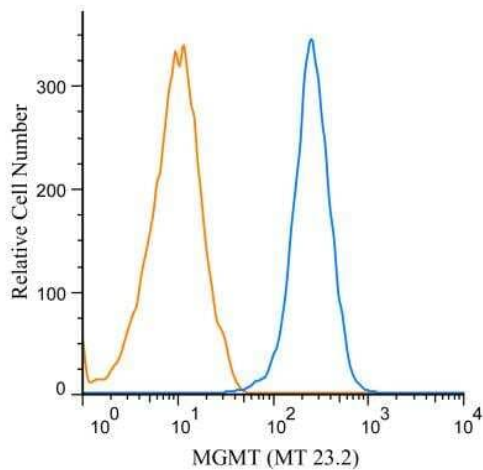


Flow (Intracellular): MGMT Antibody (MT 23.2) TA309748 - An intracellular stain was performed on Raji cells with MGMT Antibody (MT 23.2) antibody TA309748AF647 (blue) and a matched isotype control NBP2-27231AF647 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.

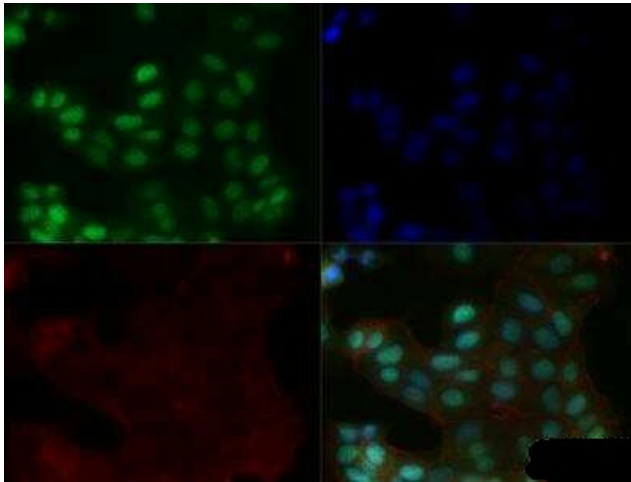


Flow Cytometry: MGMT Antibody (MT 23.2) TA309748 - An intracellular stain was performed on HeLa cells with MGMT Antibody (MT 23.2) antibody TA309748 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody 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).

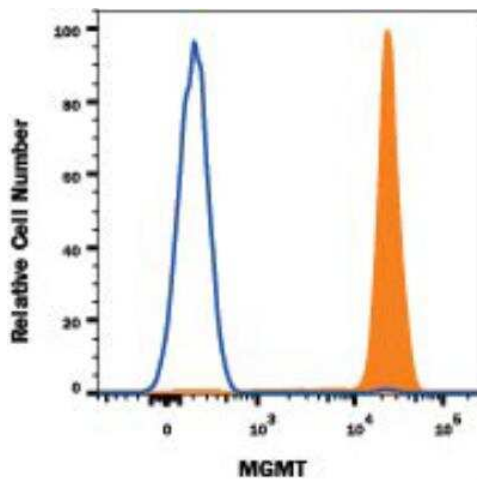
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Flow (Intracellular): MGMT Antibody (MT 23.2) TA309748 - An intracellular stain was performed on Jurkat cells with MGMT Antibody (MT 23.2) antibody TA309748 (blue) and a matched isotype control NBP2-27231 (orange). Cells were fixed with 4% PFA and 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) APC-conjugated secondary antibody (F0101B, R&D Systems).

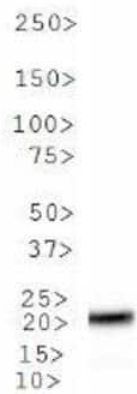


Immunocytochemistry/Immunofluorescence: MGMT Antibody (MT 23.2) TA309748 - MCF7 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-MGMT (MT 23.2) TA309748 at a 1:200 dilution overnight at 4C and detected 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.



Flow Cytometry: MGMT Antibody (MT 23.2) TA309748 - Detection of MGMT in Human Jurkat Cell Line by Flow Cytometry. Human Jurkat cell line was stained with Mouse Anti- MGMT Monoclonal Antibody (Catalog # TA309748, 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).

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Western Blot: MGMT Antibody (MT 23.2) TA309748 - Detection of MGMT in MCF7 lysate using TA309748 at 1:1000 dilution.