

MGMT Monoclonal Antibody (MT 3.1), Biotin

| Product Details | |
|--------------------|---|
| Size | 500 µL |
| Species Reactivity | Human |
| Published Species | Human, Mouse |
| Host/Isotope | Mouse / IgG1 |
| Class | Monoclonal |
| Type | Antibody |
| Clone | MT 3.1 |
| Conjugate | Biotin |
| Immunogen | Purified recombinant human MGMT protein |
| Form | Liquid |
| Concentration | 0.2 mg/mL |
| Purification | Protein G |
| Storage buffer | PBS, pH 7.4, with 0.2% BSA |
| Contains | 0.09% sodium azide |
| Storage Conditions | 4° C |
| RRID | AB_10984617 |

| Applications | Tested Dilution | Publications |
|---|-----------------|-----------------|
| Flow Cytometry (Flow) | Assay Dependent | 1 Publication |
| Immunocytochemistry (ICC) | 1:10-1:100 | - |
| Immunofluorescence (IF) | 1:10-1:100 | - |
| Immunohistochemistry (Paraffin) (IHC (P)) | 1:10 - 1:20 | 1 Publication |
| Western Blot (WB) | 0.5-1.0 µg/mL | 12 Publications |
| ELISA (ELISA) | - | 1 Publication |
| Immunohistochemistry (IHC) | - | 36 Publications |

Product Specific Information

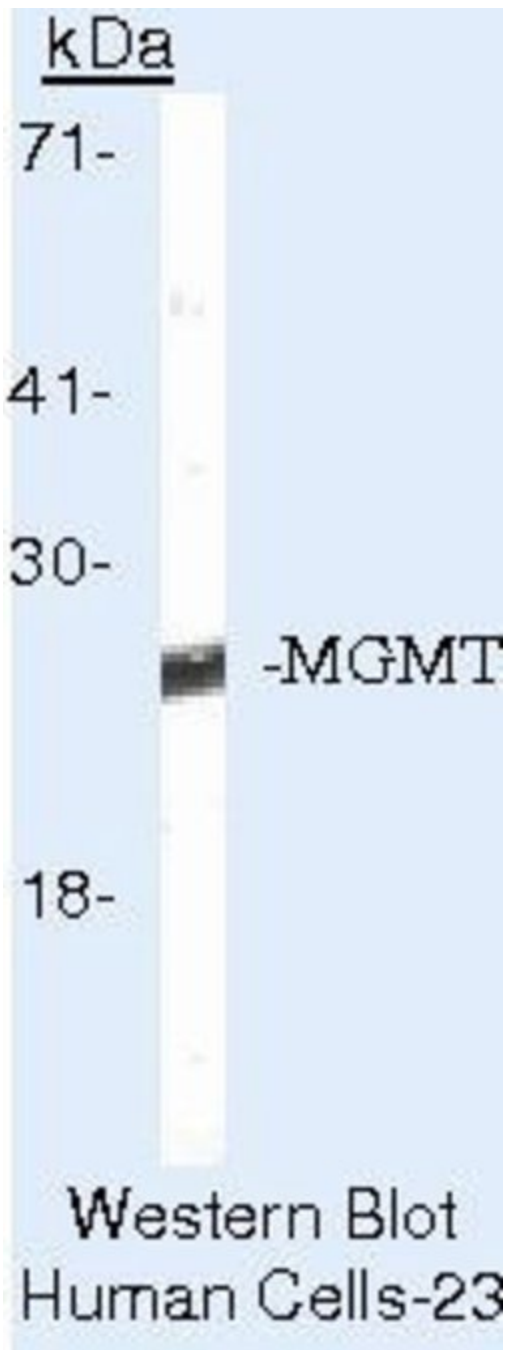
MA5-13503 targets MGMT (O-methylguanine-DNA methyltransferase) in FACS, IHC (P), ICC/IF and WB applications and shows reactivity with Human samples.

The MA5-13503 immunogen is purified recombinant human MGMT protein.

Product Images For MGMT Monoclonal Antibody (MT 3.1), Biotin

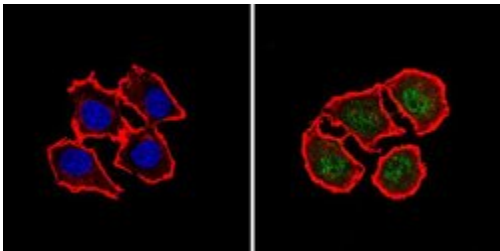
MGMT Antibody (MA5-13503) in WB

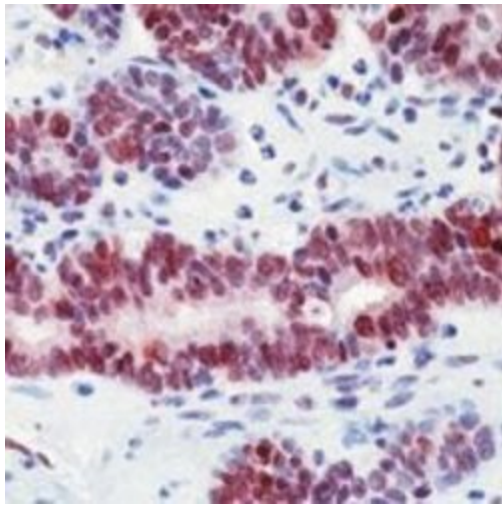
Western blot of MGMT (O-methylguanine-DNA methyltransferase) using MGMT (O-methylguanine-DNA methyltransferase) Monoclonal Antibody (Product # MA5-13503) on Raji Cells.



MGMT Antibody (MA5-13503) in IF

Immunofluorescent analysis of MGMT (O-methylguanine-DNA methyltransferase) (green) showing staining in the nucleus and cytoplasm of MCF-7 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a MGMT monoclonal antibody (Product # MA5-13506) in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.





MGMT Antibody (MA5-13503) in IHC

Formalin-fixed, paraffin-embedded human colon carcinoma stained with MGMT antibody using peroxidase-conjugate and AEC chromogen. Note nuclear staining of tumor cells.

Immunohistochemistry (36)

Folia neuropathologica

The prognostic impact of MGMT expression on low-grade gangliogliomas: a clinicopathological and immunohistochemical study.

"MA5-13503 was used in immunohistochemistry to study the prognostic value of the immunohistochemical expression of MGMT in low-grade ganglioglioma"

Authors: Chang IW,Hsu CT,Lin JW,Hung CH

Species
Human

Dilution
1:40

Year
2014

Medical journal, Armed Forces India

Correlation of histomorphologic prognostic markers and proliferative index with loss of heterozygosity 1p/19q and MGMT status in diffusely infiltrating gliomas.

"MA5-13503 was used in immunohistochemistry to study the prognostic and diagnostic value of 1p/19q loss of heterozygosity and MGMT expression in diffusely infiltrating gliomas"

Authors: Deb P,Mani NS,Sudumbrekar SM,Taneja N,Patrikar S

Species
Human

Dilution
Not Cited

Year
2013

[View more IHC references on thermofisher.com](#)

Western Blot (12)

Journal of neuro-oncology

MGMT promoter hypermethylation and its associations with genetic alterations in a series of 350 brain tumors.

"MA5-13503 was used in western blot to investigate the prognostic significance of MGMT promoter hypermethylation in brain tumors"

Authors: Mellai M,Monzeglio O,Piazzini A,Caldera V,Annovazzi L,Cassoni P,Valente G,Cordera S,Mocellini C,Schiffer D

Species
Mouse

Dilution
1:400

Year
2012

Journal of neuro-oncology

Expression of O-methylguanine-DNA methyltransferase in childhood medulloblastoma.

"MA5-13503 was used in western blot to investigate MGMT status in childhood medulloblastomas and MB/PNET cell lines"

Authors: Faoro D,von Bueren AO,Shalaby T,Sciuscio D,Hürilimann ML,Arnold L,Gerber NU,Haybaeck J,Mittelbronn M,Rutkowski S,Hegi M,Grotzer MA

Species
Human

Dilution
1:200

Year
2011

[View more WB references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (P) (1)

Flow (1)

ELISA (1)

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