

MGMT Monoclonal Antibody (MT 3.1)

Product Details	
Size	500 µL
Species	Human
Published Species	Mouse, Human
Expression System	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	MT 3.1
Conjugate	Unconjugated
Immunogen	Purified recombinant human MGMT protein
Form	Liquid
Concentration	0.4 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_10982210

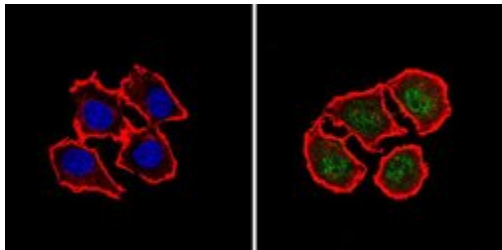
Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	2 µg/test	1 Publication
Immunocytochemistry (ICC)	1:10-1:200	-
Immunofluorescence (IF)	1:10-1:100	-
Immunohistochemistry (Paraffin) (IHC (P))	1:10 - 20	2 Publications
Western Blot (WB)	1:50	15 Publications
ELISA (ELISA)	-	1 Publication
Immunohistochemistry (IHC)	-	39 Publications

Product Specific Information

MA5-13506 targets MGMT (O-methylguanine-DNA methyltransferase) in FACS, ICC/IF, IHC (P), and WB applications and shows reactivity with Human samples.

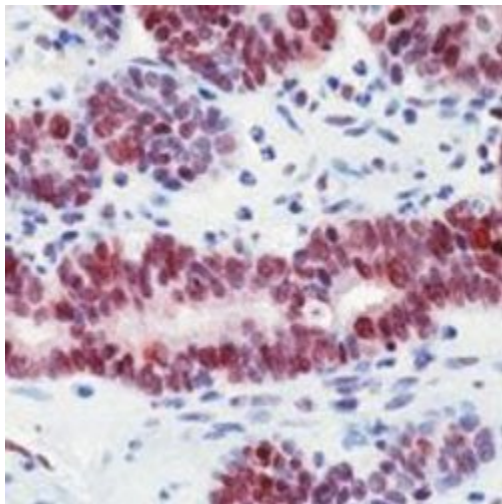
The MA5-13506 immunogen is purified recombinant human MGMT protein.

Product Images For MGMT Monoclonal Antibody (MT 3.1)



MGMT Antibody (MA5-13506) 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.

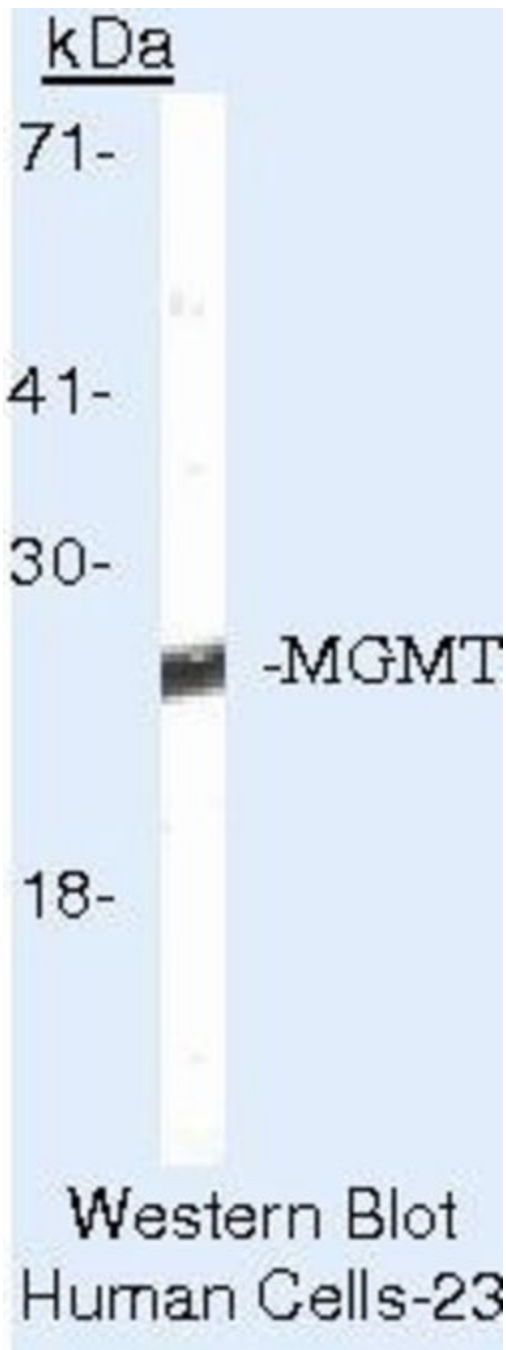


MGMT Antibody (MA5-13506) in IHC

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

MGMT Antibody (MA5-13506) in WB

Western blot of MGMT (O-methylguanine-DNA methyltransferase) using MGMT (O-methylguanine-DNA methyltransferase) Monoclonal Antibody (Product # MA5-13506) on Raji Cells.



[View more figures on thermofisher.com](https://www.thermofisher.com)

Western Blot (15)

Carcinogenesis

The effect of diet and exercise on tobacco carcinogen-induced lung cancer.

"MA5-13506 was used in Western Blotting to study the role of different types and levels of low carbohydrate, protein and lipid in lung cancer induced by tobacco-specific nicotine derived nitrosamine ketone."

Authors: Elisia I, Cho B, Hay M, Li MY, Hofs E, Lam V, Dyer RA, Lum J, Krystal G

Species
Mouse

Dilution
1:400

Year
2019

Cancer medicine

Nimotuzumab enhances temozolomide-induced growth suppression of glioma cells expressing mutant EGFR in vivo.

"MA5-13506 was used in western blot to discover enhancement of temozolomide-induced growth suppression of mutant EGFR in glioma cells in vivo by nimotuzumab"

Authors: Nitta Y, Shimizu S, Shishido-Hara Y, Suzuki K, Shiokawa Y, Nagane M

Species
Not Applicable

Dilution
Not Cited

Year
2016

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

Immunohistochemistry (Paraffin) (2)

The Journal of clinical endocrinology and metabolism

Inhibition of Human Adrenocortical Cancer Cell Growth by Temozolomide in Vitro and the Role of the MGMT Gene.

"MA513506 was used in immunohistochemistry - paraffin section to discuss therapeutic options available for patients with adrenocortical carcinomas"

Authors: Creemers SG, van Koetsveld PM, van den Dungen ES, Korpershoek E, van Kemenade FJ, Franssen GJ, de Herder WW, Feelders RA, Hofland LJ

Species
Human

Dilution
1:20

Year
2016

Clinics (Sao Paulo, Brazil)

Correlation of MGMT promoter methylation status with gene and protein expression levels in glioblastoma.

"MA5-13506 was used in immunohistochemistry - paraffin section to study methylation of the O6-methylguanine-DNA-methyltransferase promoter in patients with glioblastoma"

Authors: Uno M, Oba-Shinjo SM, Camargo AA, Moura RP, Aguiar PH, Cabrera HN, Begnami M, Rosemberg S, Teixeira MJ, Marie SK

Species
Not Applicable

Dilution
1:500

Year
2012

More applications with references on thermofisher.com

IHC (39)

Flow (1)

ELISA (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.