

Product Datasheet

MGMT Antibody (orb1716201)

Description	Cancer chemotherapeutic alkylating agents (e.g. BCNU,) act by inducing formation of lethal cross links at the O6 alkylguanine position in DNA. MGMT transfers alkyl adducts from the O6 position of guanine in DNA (prior to cross link formation) to a cysteine residue in its own sequence, thereby restoring DNA to its intact state. This transfer inactivates the MGMT enzyme and is irreversible; hence the level of MGMT in a cell is directly proportional to the level of DNA damage it can tolerate. In normal tissues, MGMT acts as a suppressor of mutation and carcinogenesis. Tumors with high levels of MGMT are likely to be drug resistant
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	IHC-P
Immunogen	Purified His-tagged MGMT protein was used as the immunogen for the MGMT antibody.
Storage	Aliquot the MGMT antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.
Note	For research use only
Application notes	Optimal dilution of the MGMT antibody should be determined by the researcher.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
Isotype	Mouse IgG1
Clonality	Monoclonal
Clone Number	MGMT/4791
Antibody Type	Primary Antibody

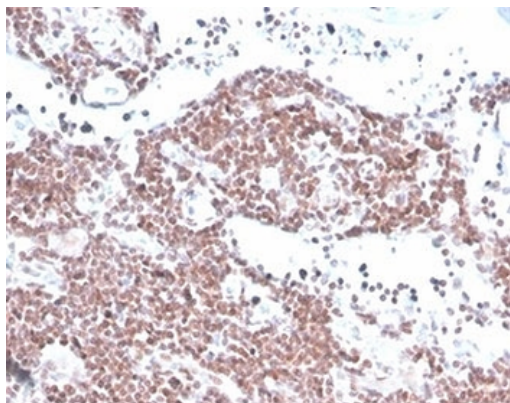
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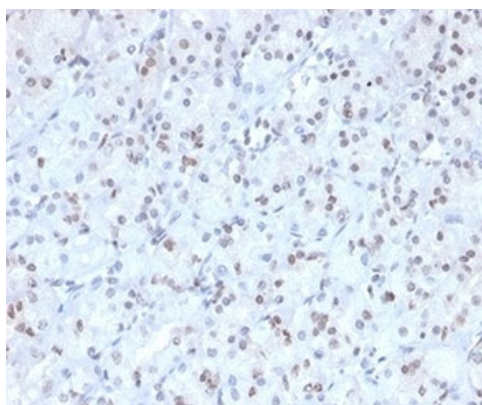
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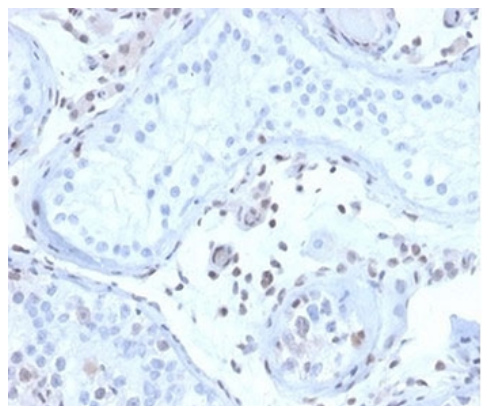
Uniprot ID	P16455
Hazard Information	This MGMT antibody is available for research use only.
Dilution Range	Immunohistochemistry (FFPE): 1-2ug/ml
Expiration Date	12 months from date of receipt.



IHC staining of FFPE human lymph node tissue with MGMT antibody (clone MGMT/4791). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human stomach tissue with MGMT antibody (clone MGMT/4791). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



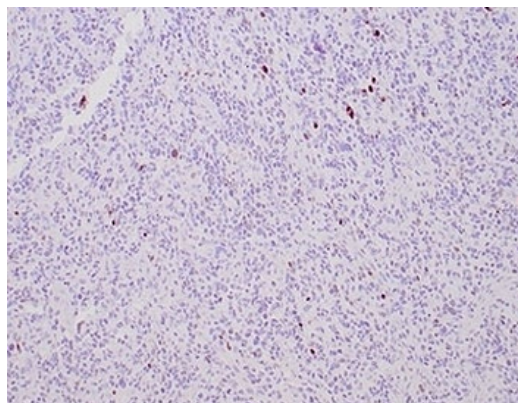
IHC staining of FFPE human testis tissue with MGMT antibody (clone MGMT/4791). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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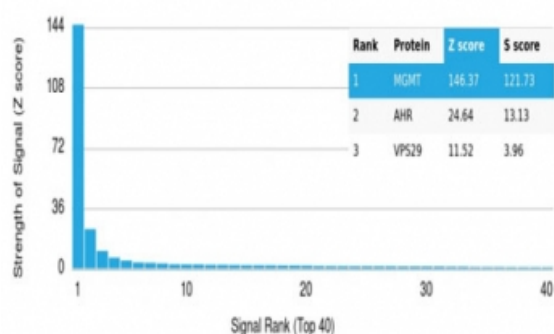
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IHC staining of FFPE human glioma tissue with MGMT antibody (clone MGMT/4791). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19,000 full-length human proteins using MGMT antibody (clone MGMT/4791). These results demonstrate the foremost specificity of the MGMT/4791 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

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