

Product datasheet for **TA349396**

MGMT Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 200-1000 WB positive control: Raji cells
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human MGMT
Formulation:	pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	22 kDa
Gene Name:	O-6-methylguanine-DNA methyltransferase
Database Link:	NP_002403 Entrez Gene 4255 Human P16455



[View online »](#)

Background: MGMT (O6-methylguanine-DNA methyltransferase) is transcriptionally activated in response to DNA damage and functions to repair mutagenic and cytotoxic O6-alkylguanine lesions caused by carcinogens or cytostatic drugs. MGMT induction by ionising radiation does not occur in p53-deficient mice, suggesting that MGMT induction may require p53. Similarly, MGMT mRNA and protein were shown to be inducible by ionising radiation, only in cell lines that express functional p53, and not in cell lines that do not express wild type p53. In contrast, high MGMT activity was associated with the presence of mutant p53, in a study of oral cancer cell lines. Similarly, MGMT activity was significantly lower in ovarian tumors with wildtype p53 than in tumors with mutant p53, supporting the view that wildtype p53 down-regulates the basal MGMT promoter.

Synonyms: methylguanine-DNA methyltransferase; O-6-methylguanine-DNA methyltransferase; O6-methylguanine-DNA methyltransferase; OTTHUMP00000020741

Protein Families: Druggable Genome

Product images:



Gel: 10%SDS-PAGE
Lysate: 40 µg
Lane: Raji cells
Primary antibody: TA349396 (MGMT Antibody) at dilution 1/150
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 40 seconds