

## **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% NaN3, 40% Glyceroln

**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

<u>P16455</u>

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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 downregulates the basal MGMT promoter.

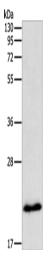
Synonyms:

methylguanine-DNA methyltransferase; O-6-methylguanine-DNA methyltransferase; O6-methylguanine-DNA methyltransferase; OTTHUMP0000020741

**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