

Anti-MGMT Antibody (6G140)

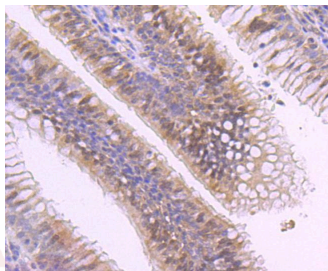
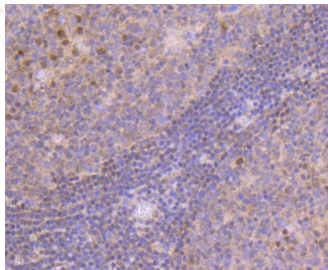
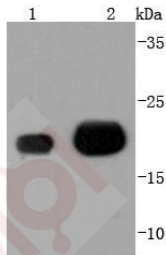
Product Details

Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 22 kDa.
Clone:	6G140
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of MGMT on different lysates using anti-MGMT antibody at 1/1,000 dilution. Positive control: Lane 1: MCF-7, Lane 2: Hela.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-MGMT antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-MGMT antibody. Counter stained with hematoxylin.



Application:	IHC,WB
Recommended	WB: 1:1000-2000; IHC: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P16455

Synonyms: O-6-methylguanine-DNA-alkyltransferase;Methylated-DNA--protein-cysteine methyltransferase;6-O-methylguanine-DNAmethyltransferase;MGMT

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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