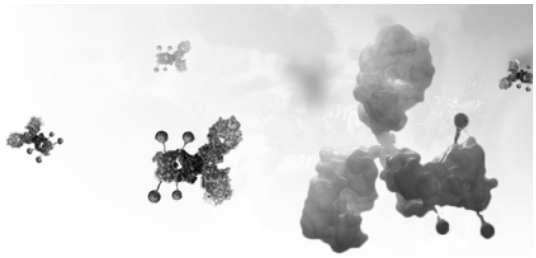

Rabbit Anti-Human MGMT monoclonal antibody, clone KK190-7 (CABT-L837)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	MGMT
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	KK190-7
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, IHC
Molecular Weight	22 kDa
Cellular Localization	Nucleus.
Positive Control	MCF-7, Hela, human tonsil tissue, human lung cancer tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction	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.
Keywords	6 O methylguanine DNA methyltransferase;6-O-methylguanine-DNA methyltransferase;Agat;AGT;AI267024;EC 2.1.1.63;Methylated DNA protein cysteine methyltransferase;Methylated-DNA--protein-cysteine methyltransferase;Methylguanine DNA methyltransferase;MGC107020;MGMT;MGMT_HUMAN;O 6 methylguanine DNA alkyltransferase;O 6 methylguanine DNA methyltransferase;O-6-methylguanine-DNA methyltransferase;O-6-methylguanine-DNA-alkyltransferase antibody

GENE INFORMATION

Entrez Gene ID	4255
UniProt ID	B4DEE8

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221