Monoclonal Mouse Antibody to O^6-Methylguanine-DNA-Methyltransferase (MGMT)

Catalog No.: Mob 423, Mob 423-05

Intended Use: This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy. Clinical interpretation of staining results should be accompanied by histological studies with proper controls. Patients' clinical histories and other relevant diagnostic tests should be utilized by a qualified person(s) when evaluating and interpreting results.

Immunogen: Recombinant human MGMT protein.

Clone: MT3.1

Isotype: IgG1

Format: This antibody is supplied as tissue culture supernatant containing sodium azide as a preservative.

Titer/Working Dilution: This antibody may be diluted to a titer of 1:25-1:50 in an ABC method. The final dilution should be determined by the user based upon the staining conditions employed.

Staining Protocol: We suggest an incubation period of 30-60 minutes at room temperature. Optimal incubation conditions should be determined by the user based upon the fixation conditions and staining system employed. High temperature treatment of formalin-fixed tissue sections with 10mM citrate buffer, pH 6.0 must be performed prior to the immunostaining.

Specificity: O^6-Methylguanine-DNA-Methyltransferase (MGMT) is a 22 kD human DNA repair protein that removes O^6-alkylguanine DNA adducts. MGMT acts as a suicide acceptor protein repairing DNA by accepting alkyl groups and consequently inactivating itself. This antibody stains all mantle zone lymphocytes and 50%of germinal center lymphocytes. Basaloid epithelial cells of tonsil squamous mucosa also stained positive with this antibody.

Positive Control: Tonsil

Cellular Localization: Nuclear and cytoplasmic

Storage: Store at 2-8°C. Do not use beyond the expiration date stated on the label.

References:

Egyhazi et al. Br J Cancer 71: 37, 1995.
Gerson et al. J Clin Oncol 20: 2388, 2002.
Matsukura et al. Annals Surg Oncol 8: 807, 2001.

IVD: For In Vitro Diagnostic Use

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