

MLH1 clone ES05

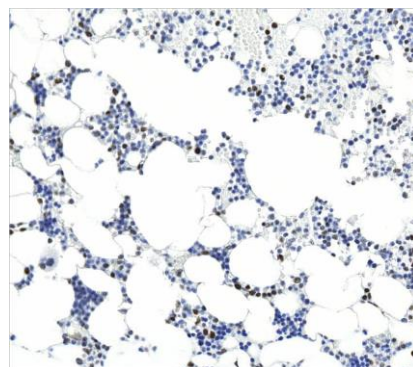
Instructions for Use

Specification:

MLH1, a mismatch repair protein involved in maintaining the integrity of genetic information, alongside MSH2, MSH6 and PMS2. During DNA replication, strand misalignment can occur resulting in alterations to microsatellite repeats, often referred to as microsatellite instability (MSI). These defects in DNA repair pathways have been linked to human carcinogenesis. Mutations in the MLH1 gene have been reported to be found in tumors with MSI, such as some forms of colon cancer e.g. Hereditary nonpolyposis colon cancer (HNPCC), a subset of sporadic carcinomas and breast cancer. Loss of expression of MLH1 has also been reported in acute lymphoblastic leukemia, endometrial carcinoma, gastric carcinoma and ovarian carcinoma.

Availability:

Catalog No.	Contents	Volume
ILM1100-C01	MLH1	0,1 ml concentrate
ILM1100-C05	MLH1	0,5 ml concentrate
ILM1100-C1	MLH1	1,0 ml concentrate



Intended use: For Research Use Only

Reactivity: Human

Clone: ES05

Species of origin: Mouse

Isotype: IgG1

Control Tissue: Colon

Staining: Nuclear

Immunogen: Prokaryotic recombinant protein corresponding to 210 amino acids of human MLH1

Presentation: purified immunoglobulin fraction diluted in PBS with 1% BSA containing 15 mM sodium azide as a preservative

Application and suggested dilutions:

Pretreatment: Heat induced epitope retrieval in 10 mM citrate buffer, pH6.0, for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution up to 1:100)

The optimal dilution for a specific application should be determined by the investigator.

Note: Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody-based detection is recommended.

Storage & Stability: Store at 2-8 °C. Do not use after expiration date printed on the vial.

Reference:

- 1) Battifora H. Progress in Surgical Pathology. 6:1–15. eds. Fenoglio-Preiser C, Wolff CM, Rilke F. Field & Wood, Inc., Philadelphia. 3.
- 2) Nadji M, Morales AR. Laboratory Medicine. 1983; 14:767.
- 3) Omata M, Liew CT, Ashcavai M, Peters RL. American Journal of Clinical Pathology. 1980; 73:626.
- 4) Tamura G. World Journal of Gastroenterology 2006; 12(2): 192–198 6.
- 5) Abdel-Rahman W, Mecklin J and Peltomaki P. Critical Reviews in Oncology/Hematology 2006; 58: 208–220
Mitchell R, Farrington S, Dunlop M et al. American Journal of Epidemiology 2002; 156:885–902
- 6) Kuismanen S, Holmberg M, Salovaara R et al. American Journal of Pathology 2000; 156(5): 1773–1779