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## MLH-1 (Clone G168-728)

### Mouse Monoclonal Antibody

**Specificity:** Human. Others-not tested

**Immunogen:** Full length recombinant MLH

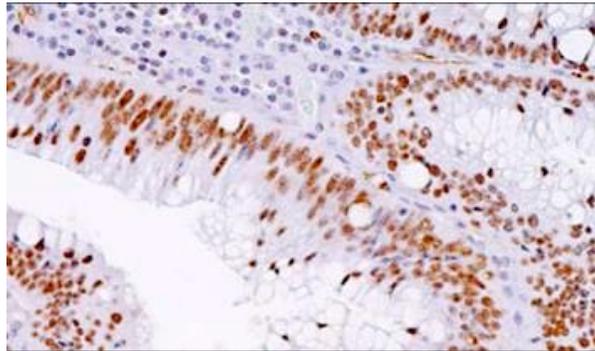
**Ig Class:** Mouse IgG1

**Storage:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:25-100; *Positive Control:* Colon carcinoma. *Cellular Localization:* Nuclear. *Intended Use:* In vitro diagnosis (IVD).

**Description:** The G168-15 antibody recognizes the human and mouse MLH1 (80-85kDa). The repair of mismatch DNA is essential to maintaining the integrity of genetic information over time. An alteration of microsatellite repeats is the result of slippage owing to strand misalignment during DNA replication and is referred to as microsatellite instability (MSI). These defects in DNA repair pathways have been related to human carcinogenesis. The importance of mismatch repair genes became apparent with the identification of the genetic basis for hereditary nonpolyposis colon cancer (HNPC). MSH-2 is involved in the initial cognition of mismatch nucleotides during the replication mismatch repair process. It is thought that after MSH2 binds to a mismatched DNA duplex it is joined by a heterodimer of MLH1 and PMSH, which together help facilitate the later steps in mismatch repair. This antibody cross reacts with human, hamster and rat

**Supplied As:** Purified antibody from culture supernatant with 0.2% BSA and 15mM sodium azide.



*Formalin-fixed, paraffin-embedded human colon carcinoma stained with anti-MLH-1 antibody using peroxidase-conjugate and DAB chromogen. Note the nuclear staining of tumor cells*

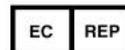
**Cat. #Z2076 (1.0 ml)**

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