ZETA Corporation *IVD Data Sheet (Rev 122017)*

MSH-2 (Clone G219-1129)

Mouse Monoclonal Antibody

Specificity: Human. Others-not known

Immunogen: BALB/C mice were injected with recombinant human MSH2 protein

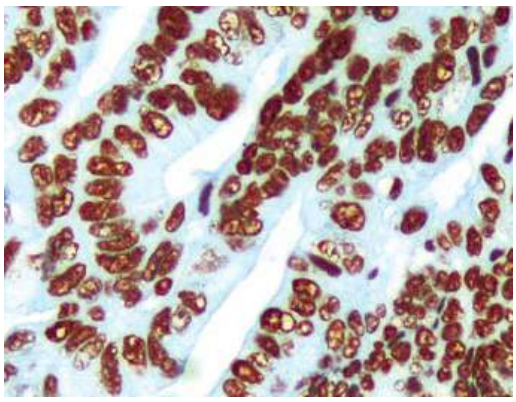
Ig Class: IgG1/κ

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 deperaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution*: 1:50-100; *Positive Control*: Colon carcinoma. *Cellular Localization*: Nuclear. *Intended Use*: In vitro diagnosis (IVD).

Description: Germline mutations in human mismatch repair genes (hMSH2, hMSH6, hMLH1, hPMS2) account for majority of the hereditary non-polyposis colorectal carcinoma (HPNCC). CpG dinucleotides in the hMSH2 and hMLH1 genes are hotspots for HNPCC mutations. These mutations cause a mismatch repair deficiency resulting in a mutator phenotype where the replication errors are not repaired. Microsatellites / simple repeatative sequences are prone to this type of replication errors and instability of these microsatellites correlates with the occurance of HPNCC. hMSH2 binds to another MutS homolog protein GTBP to form a heterodimeric complex called hMutSbeta, which binds to insertion/deletion loops in DNA.

Supplied As: Tissue culture supernatant with 0.2% BSA and 15mM sodium azide.



Formalin-fixed, paraffin-embedded human colon adenocarcinoma stained with anti-MSH-2 antibody using peroxidase-conjugate and DAB chromogen. Note the nuclear staining of tumor cells

Cat. #Z2129 (1.0 ml)

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