

Product datasheet for **AM10116SU-N**

MSH2 Mouse Monoclonal Antibody [Clone ID: G219-1129]

Product data:

Product Type:	Primary Antibodies
Clone Name:	G219-1129
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Formalin-Fixed, Paraffin-Embedded Sections: 1/501/100 Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. Use Polymer anti Mouse/Rabbit IgG as a detection system. <i>Positive Control:</i> Colon carcinoma.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	BALB/C mice were injected with recombinant Human MSH2 protein.
Specificity:	Recognizes MSH2 Cellular Localization: Nuclear.
Formulation:	State: Supernatant State: Tissue Culture Supernatant with 0.2% BSA and 15mM Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	mutS homolog 2
Database Link:	Entrez Gene 4286 Human Entrez Gene 4436 Human P43246



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Background:

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 occurrence 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.

Synonyms:

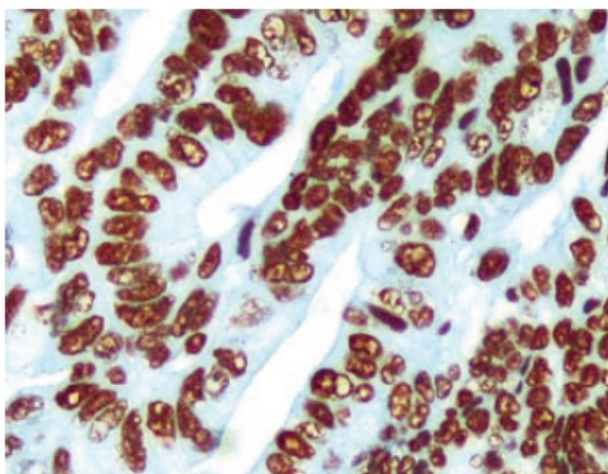
DNA mismatch repair protein Msh2, MutS protein homolog 2

Protein Families:

Druggable Genome, Transcription Factors

Protein Pathways:

Melanogenesis, Melanoma, Pathways in cancer

Product images:

Formalin-Fixed, Paraffin-Embedded Human colon adenocarcinoma stained with MSH2 antibody Cat.-No. AM10116SU-N using peroxidase conjugate and DAB chromogen. Note the nuclear staining of tumor cells.