

Product datasheet for **AM10114SU-N**

MLH1 Mouse Monoclonal Antibody [Clone ID: G168-728]

Product data:

Product Type:	Primary Antibodies
Clone Name:	G168-728
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Formalin-Fixed, Paraffin-Embedded Sections: 1/100 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:	Hamster, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant full length MLH protein.
Specificity:	The G168-15 antibody recognizes the Human and Mouse MLH1 (80-85kDa). Cellular Localization: Nuclear.
Formulation:	State: Supernatant State: Liquid 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:	mutL homolog 1
Database Link:	Entrez Gene 17342 Mouse Entrez Gene 25094 Rat Entrez Gene 4292 Human P40692



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Background:

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 (HNPCC). 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.

Synonyms:

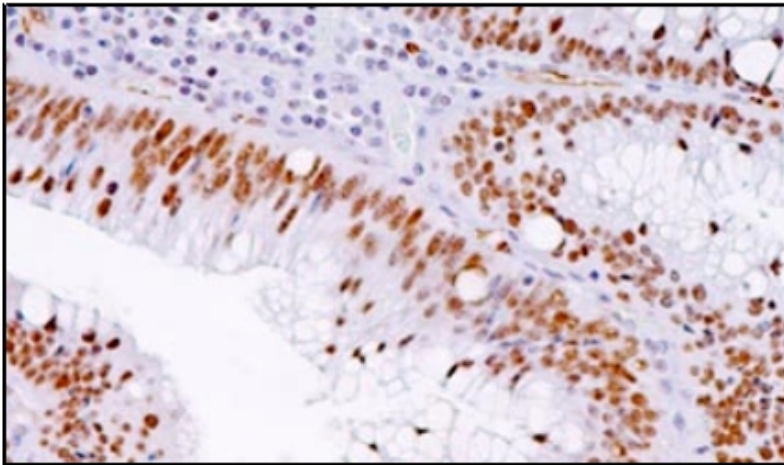
DNA mismatch repair protein Mlh1, COCA2

Protein Families:

Druggable Genome, Transcription Factors

Protein Pathways:

Melanogenesis, Melanoma, Pathways in cancer

Product images:

Formalin-Fixed, Paraffin-Embedded Human colon carcinoma stained with MLH1 antibody Cat.-No. AM10114SU-N using peroxidase conjugate and DAB chromogen. Note the nuclear staining of tumor cells.