

Mouse MLH1 Monoclonal Antibody | anti-MLH1 antibody

MLH1

CATALOG # AAA59227	HOST Mouse	REACTIVITY Human, Rat, Mouse
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PRODUCT SYNONYMS

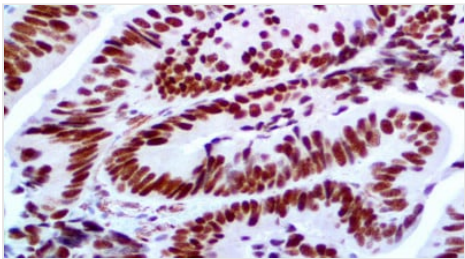
MLH1; Monoclonal Antibody; anti-MLH1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Rat, Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	G168-728
Immunogen	Full length recombinant MLH1 protein.
Control	Testis, Tonsil, Colon, Kidney, Colon Carcinoma
Localization	Nuclear
Intended Uses	This antibody is intended for use in Immunohistochemical applications on formalin-fixed paraffin-embedded tissues (FFPE), frozen tissue sections, and cell preparations.
Presentation	Anti-MLH1 is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.
Reactivity Note	Paraffin, Frozen
Precautions	1. This product contains <0.1% sodium azide (NaN₃) as a preservative. Ensure proper handling procedures are used with this reagent. 2. Always wear personal protective equipment such as a laboratory coat, goggles, and gloves when handling reagents. 3. Dispose of unused solution with copious amounts of water. 4. Do not ingest reagent. If reagent is ingested, seek medical advice immediately. 5. Avoid contact with eyes. If contact occurs, flush with large quantities of water. 6. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar). 7. For additional safety information refer to Safety Data Sheet for this product. 8. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and AMDL (see References in this document).
Mounting Protocols	For detailed instructions using biodegradable permanent mounting media such as XyGreen PermaMunter (please inquire) or organic solvent based resin such as PermaMunter (please inquire).
Product Limitations	Due to inherent variability present in immunohistochemical procedures (including fixation time of tissues, dilution factor of antibody, retrieval method utilized, and incubation time), optimal performance should be established through the use of positive and negative controls.
Preparation and Storage	Store at 2 to 8 degree C.

IMAGES

Abbreviated Immunohistochemical Protocol			
Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min.
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate- Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain/Coverslip	Varies	Varies	Varies



IHC (Immunohistochemistry)
MLH1 Antibody Immunohistochemistry on a FFPE Colon Carcinoma Tissue

IHC (Immunohistochemistry)

Presentation	Dilution	Volume
Predilute	Ready-to-Use	3.0 mL
Predilute	Ready-to-Use	7.0 mL
Predilute	Ready-to-Use	15.0 mL
Concentrate	1:10-1:50	0.1 mL
Concentrate	1:10-1:50	0.5 mL
Concentrate	1:10-1:50	1.0 mL

Dilution Info

ADDITIONAL INFORMATION

Related Product Information for anti-MLH1 antibody

MLH1 is a mismatch repair gene of around 87 kDa, commonly associated with Hereditary Non-Polyposis Colorectal Cancer (HNPCC). This gene was identified as a locus frequently mutated in HNPCC. It is a human homolog of the E. coli DNA mismatch repair gene mutL, consistent with the characteristic alterations in microsatellite sequences (RER+ phenotype) found in HNPCC. Alternatively spliced transcript variants encoding different isoforms have been described, but their full-length natures have not been determined. In a high proportion of patients with microsatellite instability (MSI-H), the MLH1 protein is typically deficient. This protein deficiency is linked to the autosomal dominant condition of Hereditary Non-Polyposis Colon Cancer. The anti-MLH1 antibody is useful in screening patients and families for this condition. Colon cancers that are microsatellite-unstable have a better prognosis than their microsatellite stable counterparts.

NCBI AND UNIPROT INFORMATION

NCBI GI #	17136968
NCBI GeneID	35796
NCBI Accession #	NP_477022.1
NCBI GenBank Nucleotide #	NM_057674.2
NCBI Official Full Name	Mlh1
NCBI Official Symbol	Mlh1
NCBI Official Synonym Symbols	CG11482; DmelCG11482; dmlh-1; dmlh1
NCBI Protein Information	CG11482 gene product from transcript CG11482-RA; Mlh1; CG11482-PA; Mlh1-PA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.