

Monoclonal Mouse Antibody to MLH1

Catalog No.:	PDM 148
Intended Use:	This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy. Clinical interpretation of staining results should be accompanied by histological studies with proper controls. Patients' clinical histories and other relevant diagnostic tests should be utilized by a qualified person(s) when evaluating and interpreting results.
Clone:	G168-15
Immuogen:	Full length recombinant MLH1.
Isotype:	IgG1
Format:	This antibody has been pretitered and quality controlled to work on formalin-fixed paraffin-embedded and acetone fixed cryostat tissue sections. No further titration is required.

Staining Protocol:

Peroxidase Block	Block for 5 minutes at room temperature
HIER (heat induced epitope retrieval)	1mM EDTA pH 8.0
Primary Antibody	Apply for 20 minutes at room temperature, wash with 1x Immunowash Buffer
Polyvue Enhancer/ Polyvue Tracer	10 minutes at room temperature, wash with 1x Immunowash Buffer (Enhancer, Buffer, Tracer, Buffer)
Chromogen (Pick one)	Stable DAB/Plus for 5 minutes Perma Red/AP for 10-15 minutes
Counterstain	Apply if desired, dry, then mount accordingly

Specificity:	The G168-15 antibody recognizes the human and mouse MLH1 (80-85kDa). Repair of mismatched DNA is essential to maintain 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. These defects in the 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. MSH2 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 PMS2 which together help facilitate the later steps in mismatch repair. This antibody cross reacts with human, hamster, and rat MLH1.
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IVD: For In Vitro Diagnostic Use

DBS will not be held responsible for patent infringement or other violation that may occur with the use of our product

DBS

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Positive Control:	Tonsil
Cellular Localization:	Nuclear
Storage:	Store at 2-8°C. Do not use beyond the expiration date stated on the label.
References:	Machin et al. J Cutan Pathol 29 (7): 415, 2002.

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