

MLH1 monoclonal antibody

Catalog: MB66029

Host: Mouse

Reactivity: Human

BackGround:

Mismatch repair (MMR), a conserved process that involves correcting errors made during DNA synthesis, is crucial to the maintenance of genomic integrity. MLH1 is the human homologue of the E. coli MMR gene mutL. MMR requires recognition of a base mismatch or insertion/deletion loop by a MutS homolog followed by recruitment of a MutL heterodimeric complex consisting of MLH1 and PMS1 (MutL- γ), PMS2 (MutL- α), or MLH3 (MutL- γ). Other factors required for MMR in eukaryotes are EXO1, PCNA, RFC, RPA, DNA polymerases, and DNA ligase. Inactivation of the MLH1 gene causes genome instability and predisposition to cancer. The MLH1 gene is frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). MLH1 also plays a role in meiotic recombination.

Product:

Mouse IgG1. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.

Molecular Weight:

~ 95 kDa

Swiss-Prot:

P40692

Purification&Purity:

The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB (1/500 - 1/1000), IHC (1/100 - 1/300), IF (1/100 - 1/500)

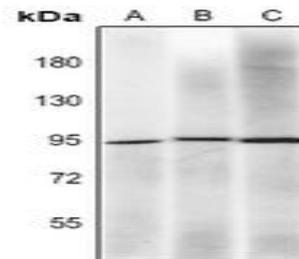
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

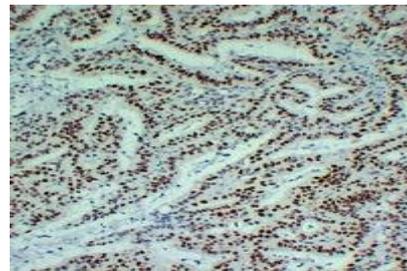
Specificity:

Recognizes endogenous levels of MLH1 protein.

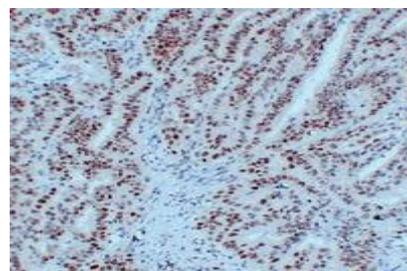
DATA:



Western blot analysis of MLH1 expression in K562 (A), HEK293 (B), HeLa (C) whole cell lysates.



Immunohistochemical analysis of MLH1 staining in human colon carcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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PRODUCT DATA SHEET

Bioworld Technology, Inc.

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Note:

For research use only, not for use in diagnostic procedure.

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