MSH2 monoclonal antibody

Catalog: MB21042 Host: Mouse Reactivity: Human,Mouse

BackGround:

MSH2 is a 100 kDa nuclear antigen and encodes a protein of 934 amino acids. The MSH2 gene is one of 4 known genes encoding proteins involved in the repair of mismatch nucleotides following DNA
replication or repair. Mutations in the MSH2 gene contribute to the development of sporadic
colorectal carcinoma. MSHS mutations are responsible for 50% of inherited non-polyposis colorectal
(HNPCC). 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. MSH-2 is involved in the initial cognition of mismatch nucleotides during the replication mismatch repair process.

Product:

Purified antibody in PBS with 0.05% sodium azide.

Molecular Weight:

105kDa

Swiss-Prot:

P43246

Purification&Purity:

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

Applications:

WB:1/500 - 1/2000 IHC:1/100 - 1/500 IF:1/50 - 1/500

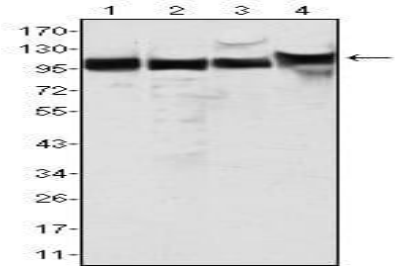
Storage&Stability:

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

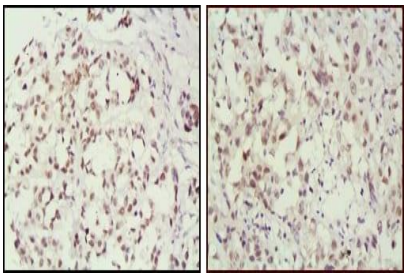
Isotype:

Mouse IgG1

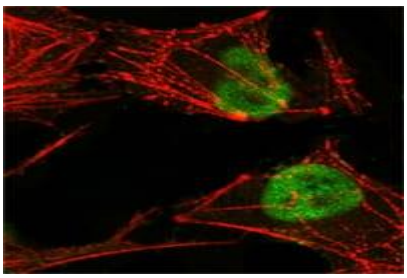
DATA:



Western blot analysis using MSH2 mouse mAb against Hela (1), A549 (2), A431 (3) and HEK293 (4) cell lysate.



Immunohistochemical analysis of paraffin-embedded human breast cancer (left) and lung cancer (right) tissues, showing nuclear localization using MSH2 mouse mAb with DAB staining.



Confocal Immunofluorescence analysis of Hela cells using MSH2 mouse mAb (green), showing nuclear localization. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Note:

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

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