Product Name: MSH2 Mouse Monoclonal Antibody
Catalog #: AMM80515

Summary

Production Name	MSH2 Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,ELISA
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Immunogen

Gene Name	MSH2
Alternative Names	FCC1; COCA1; HNPCC; LCFS2
Gene ID	4436.0
SwissProt ID	P43246.Purified recombinant fragment of human MSH2 expressed in E. Coli.

Application

Dilution Ratio	WB:1:500-1:2000,IHC:1:100-1:500,ICC:1:50-1:500,ELISA:1:10000
Molecular Weight	105kDa

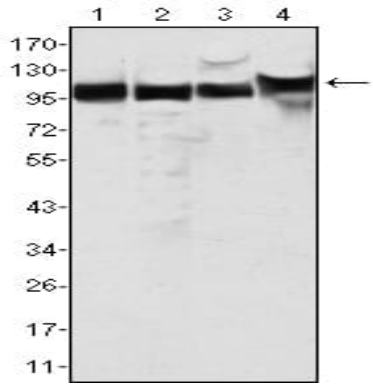
Background

MSH2 is a 100 kDa nuclear antigen and encodes a protein of 934 amino acids. The MSH2 gene is one of 4 known genes

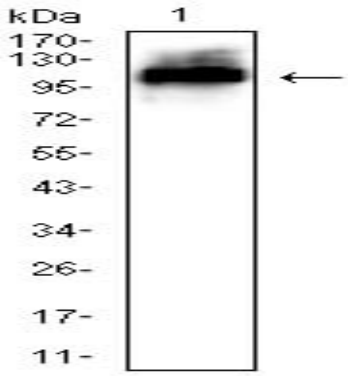
encoding proteins involved in the repair of mismatch nucleotides following DNA
replication or repair. Mutations in the MSH2 gene contribute to the development of sporadic
colorectal carcinoma. MSHS mutations are responsible for 50% of inherited non-polyposis colorectal
(HNPCC). The repair of mismatch 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.

Research Area

Image Data



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



Western blot analysis using MSH2 mouse mAb against C2C12 cell lysate.

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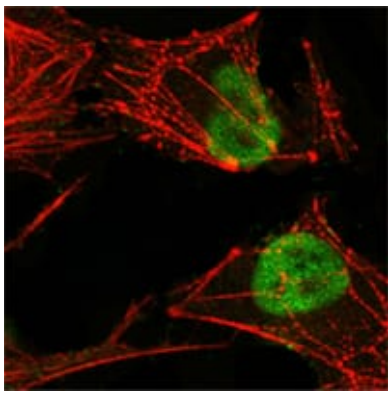
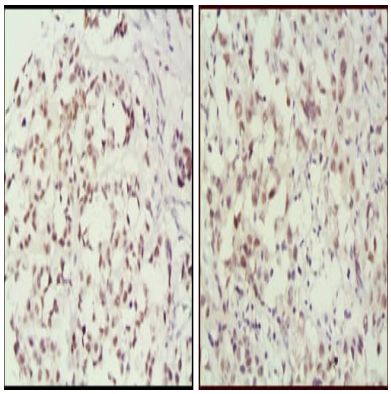


Confocal Immunofluorescence analysis of Hela cells using MSH2 mouse mAb (green), showing nuclear localization. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



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

Note

For research use only.