

Mouse MSH2 Monoclonal Antibody | anti-MSH2 antibody

MSH2 antibody

CATALOG # AAA74720	HOST Mouse	APPLICATIONS Western Blot, Immunohistochemistry, Immunofluorescence, ELISA
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PRODUCT SYNONYMS

MSH2; Monoclonal Antibody; MSH2 antibody; Monoclonal MSH2; Anti-MSH2; MSH 2; MSH-2; anti-MSH2 antibody

PRODUCT SPECIFICATIONS

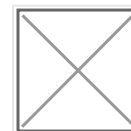
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	1B3=3A2B8C
Form/Format	Supplied as a liquid in ascitic fluid containing 0.03% sodium azide.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	982
Applicable Applications for anti-MSH2 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ELISA
Biological Significance	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.
Cross-Reactivity	Human, Monkey
Immunogen	MSH2 antibody was raised in Mouse using a purified recombinant fragment of human MSH2 expressed in E Coli as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)

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



WB (Western Blot)

Western Blot showing MSH2 antibody used against Hela (1), A549 (2), A431 (3) and HEK293 (4) cell lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-MSH2 antibody	Mouse monoclonal MSH2 antibody
Product Categories/Family for anti-MSH2 antibody	DNA & RNA

NCBI AND UNIPROT INFORMATION

NCBI GI #	4151103
UniProt Accession #	O74773; O42950
Molecular Weight	109,739 Da
NCBI Official Full Name	Msh2
UniProt Protein Name	DNA mismatch repair protein msh2
UniProt Gene Name	msh2
UniProt Entry Name	MSH2_SCHPO

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/msh2-antibody-clone-1b3-3a2b8c-western-blot-immunohistochemistry-immunofluorescence-elisa/74720>