

Product datasheet for AM06094SU-N

P43246

MSH2 Mouse Monoclonal Antibody [Clone ID: 1B3=3A2B8C]

Product data:

Product Type: Primary Antibodies Clone Name: 1B3=3A2B8C **Applications:** ELISA, IF, IHC, WB Recommended Dilution: ELISA: 1/10000. Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. Immunohistochemistry on Paraffin Sections: 1/200 - 1/1000. **Reactivity:** Human, Monkey Host: Mouse Isotype: lgG1 Monoclonal **Clonality:** Purified recombinant fragment of human MSH2 expressed in E. Coli. Immunogen: Specificity: **Recognizes MSH2** Formulation: State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide. **Conjugation:** Unconjugated Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Stability: Shelf life: one year from despatch. **Predicted Protein Size:** 105 kDa Gene Name: mutS homolog 2 Database Link: Entrez Gene 4436 Human



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STORIGENE MSH2 Mouse Monoclonal Antibody [Clone ID: 1B3=3A2B8C] – AM06094SU-N

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.

Synonyms:

DNA mismatch repair protein Msh2, MutS protein homolog 2

Product images:



Western blot analysis using MSH2 antibody Cat.-No AM06094SU-N against Hela (Lane 1), A549 (Lane 2), A431 (Lane 3) and HEK293 (Lane 4) cell lysate



Immunohistochemical analysis of paraffinembedded human breast cancer (left) and lung cancer (right) tissues, showing nuclear localization using MSH2 antibody Cat.-No AM06094SU-N with DAB staining.

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Confocal Immunofluorescence analysis of Hela cells using MSH2 antibody Cat.-No AM06094SU-N (green), showing nuclear localization. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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