

## Mouse Monoclonal Antibody to MSH2

<b>Catalogue Number</b>	sAP-0025
<b>Target Molecule</b>	<b>Name: MSH2</b> <b>Aliases:</b> FCC1; COCA1; HNPCC; LCFS2 <b>MW: 105kDa</b> <b>Entrez Gene ID: 4436</b>
<b>Description</b>	<p>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</p>
<b>Immunogen</b>	Purified recombinant fragment of human MSH2 expressed in E. Coli.
<b>Reactive Species</b>	Human; Monkey
<b>Clone</b>	MM1B3;
<b>Size and Concentration</b>	100µg/1mg/ml
<b>Supplied as</b>	Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide.
<b>Reconstitution/Storages</b>	Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage
<b>Applications</b>	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000; ICC: 1 to 200 - 1 to 1000
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1. Papadopoulos, N. 1994. Science 263: 1625-1629. ; 2. Palombo, F. 1994. Nature 367:417-418. ; ;

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**