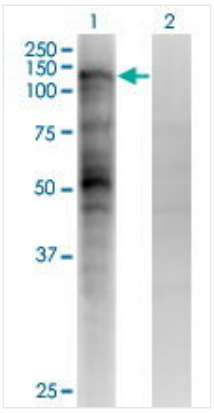
MSH2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MSH2, Monoclonal Antibody
Full Product Name	MSH2 (mutS Homolog 2, Colon Cancer, nonpolyposis Type 1 (E. coli), COCA1, FCC1, HNPCC, HNPCC1, LCFS2) (AP)
Product Gene Name	anti-MSH2 antibody
Product Synonym Names	mutS Homolog 2; Colon Cancer; nonpolyposis Type 1 (E. coli); COCA1; FCC1; HNPCC; HNPCC1; LCFS2
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4F11
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified
Specificity	Recognizes MSH2.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Immunogen	MSH2 (AAH21566, 835aa-934aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	NFPKHVIECAKQKALELEEFQYIGESQGYDIMEPAAKKCYLEREQGEKIIQEFLSKVKQMPFTEMSEENITIKLKQLKAEVIAKNNSFVNEIISRIKVTT
Conjugate	AP
Product Categories/Family for anti-MSH2 antibody	Antibodies; Nuclear Proteins
Applications Tested/Suitable for anti-MSH2 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-MSH2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MSH2 antibody	MSH2 was identified as a locus frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). When cloned, it was discovered to be a human homolog of the E. coli mismatch repair gene mutS, consistent with the characteristic alterations in microsatellite sequences (RER+ phenotype) found in HNPCC. [provided by RefSeq]
Other Notes	Small volumes of anti-MSH2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for MSH2 purchase	MBS6165204 is an antibody targeting MSH2. Also known as MSH2 (mutS Homolog 2, Colon Cancer, nonpolyposis Type 1 (E. coli), COCA1, FCC1, HNPCC, HNPCC1, LCFS2) (AP). Host: Mouse.



Western Blot (WB) of anti-MSH2 antibody
Western Blot analysis of MSH2 expression in transfected 293T cell line by MSH2 monoclonal antibody (M04), clone 4F11.Lane 1: MSH2 transfected lysate (Predicted MW: 104.7 KDa).Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MSH2. It may not necessarily be applicable to this product.

NCBI GI #	18204306
NCBI GeneID	4436
NCBI Accession #	AAH21566
UniProt Related Accession #	P43246
NCBI Official Full Name	MutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)
NCBI Official Synonym Full Names	mutS homolog 2
NCBI Official Symbol	MSH2
NCBI Official Synonym Symbols	FCC1; COCA1; HNPCC; LCFS2; hMSH2; HNPCC1
Protein Family	DNA mismatch repair protein
NCBI Protein Information	DNA mismatch repair protein Msh2
NCBI Summary for MSH2	This locus is frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). When cloned, it was discovered to be a human homolog of the E. coli mismatch repair gene mutS, consistent with the characteristic alterations in microsatellite sequences (RER+ phenotype) found in HNPCC. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]
Research Articles on MSH2	**1.** The MSH2 c.1022T>C variant is a pathogenic founder variation associated with a high risk of cancer.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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