

MSH2 monoclonal antibody, clone 3A2B8C

Catalog # MAB5538

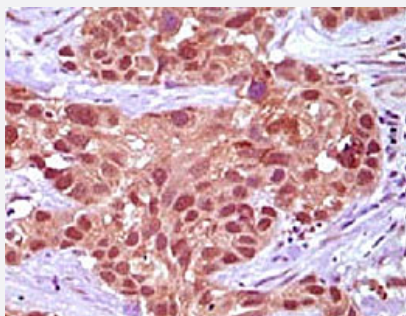
Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis using MSH2 monoclonal antibody, clone 3A2B8C (Cat # MAB5538) against A-431 cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human rectum carcinoma tissue, showing nuclear and cytoplasmic localization using MSH2 monoclonal antibody, clone 3A2B8C (Cat # MAB5538) with DAB staining.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant MSH2.
Immunogen	Recombinant protein corresponding to human MSH2.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG1

Recommend Usage	Western Blot (1:200-1:1000) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-1:1000) Immunohistochemistry (Frozen sections) (1:200-1:1000) ELISA (1:10000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (50% glycerol, 0.01% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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- Western Blot (Cell lysate)

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- Immunohistochemistry (Frozen sections)

- Enzyme-linked Immunoabsorbent Assay

Gene Info — MSH2

Entrez GeneID	4436
Gene Name	MSH2
Gene Alias	COCA1, FCC1, HNPCC, HNPCC1, LCFS2
Gene Description	mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)
Omim ID	114030 114400 120435 137800 158320 162200 609309
Gene Ontology	Hyperlink

Gene Summary

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 Designations

mutS homolog 2

Publication Reference

- [Mutation of a mutL homolog in hereditary colon cancer.](#)

Papadopoulos N, Nicolaides NC, Wei YF, Ruben SM, Carter KC, Rosen CA, Haseltine WA, Fleischmann RD, Fraser CM, Adams MD, et al..

Science 1994 Mar; 263(5153):1625.

- [Mismatch repair and cancer.](#)

Palombo F, Hughes M, Jiricny J, Truong O, Hsuan J.

Nature 1994 Feb; 367(6462):417.

Application: IHC, WB-Ti, Human, Human hereditary nonpolyposis colorectal carcinoma

Pathway

- [Colorectal cancer](#)
- [Mismatch repair](#)
- [Pathways in cancer](#)

Disease

- [Adenocarcinoma](#)
- [Adenoma](#)
- [Adenomatous Polyposis Coli](#)
- [Anticipation](#)
- [Ataxia telangiectasia](#)
- [Brain Neoplasms](#)

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cell Transformation](#)
- [Chromosomal Instability](#)
- [Chromosome Deletion](#)
- [Chronic Disease](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Cystadenocarcinoma](#)
- [Depressive Disorder](#)
- [Digestive System Neoplasms](#)
- [Disease Susceptibility](#)
- [DNA Damage](#)
- [Duodenal Neoplasms](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Gallbladder Neoplasms](#)
- [Gallstones](#)
- [Gastritis](#)
- [Gastrointestinal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Genital Neoplasms](#)
- [Genomic Instability](#)
- [Glioma](#)

- [Head and Neck Neoplasms](#)
- [Helicobacter Infections](#)
- [Hemochromatosis](#)
- [Ileal Neoplasms](#)
- [Jejunal Neoplasms](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Leukemia](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lynch Syndrome II](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mental Disorders](#)
- [Microsatellite Instability](#)
- [Myelodysplastic Syndromes](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neuroma](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)

- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Pattern Recognition](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psychometrics](#)
- [Pulmonary Disease](#)
- [Rare Diseases](#)
- [Rectal Neoplasms](#)
- [Recurrence](#)
- [Retinal Diseases](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Stress](#)
- [Stress Disorders](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Urologic Neoplasms](#)
- [Werner syndrome](#)