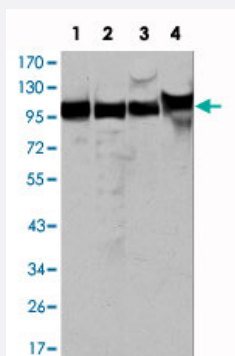


MSH2 monoclonal antibody, clone 1B3 (3A2B8C)

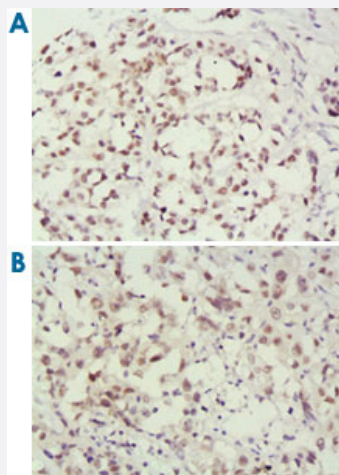
Catalog # MAB10812 Size 100 uL

Applications



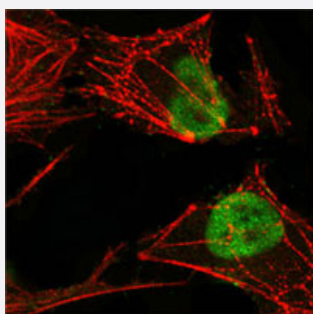
Western Blot (Cell lysate)

Western blot analysis using MSH2 monoclonal antibody, clone 1B3 (3A2B8C) (Cat # MAB10812) against HeLa (1), A-549 (2), A-431 (3) and HEK293 (4) cell lysate.



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

Immunohistochemical analysis of paraffin-embedded human breast cancer (A) and lung cancer (B) tissues, showing nuclear localization using MSH2 monoclonal antibody, clone 3A2B8C (Cat # MAB10812) with DAB staining.



Immunofluorescence

Confocal immunofluorescence analysis of HeLa cells using MSH2 monoclonal antibody, clone 1B3 (3A2B8C) (Cat # MAB10812) (green), showing nuclear localization. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant MSH2.
Immunogen	Recombinant protein corresponding to human MSH2.
Host	Mouse
Reactivity	Human, Monkey
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Immunofluorescence (1:200-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage 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.

Applications

- Western Blot (Cell lysate)

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- 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

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](#)