

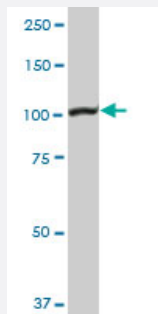
MaxPab®

MSH2 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00004436-D01P

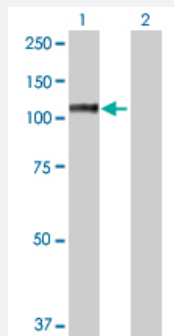
Size 100 ug

Applications



Western Blot (Cell lysate)

MSH2 MaxPab rabbit polyclonal antibody. Western Blot analysis of MSH2 expression in HeLa S3 NE.

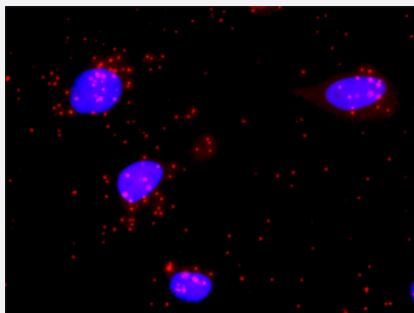


Western Blot (Transfected lysate)

Western Blot analysis of MSH2 expression in transfected 293T cell line ([H00004436-T01](#)) by MSH2 MaxPab polyclonal antibody.

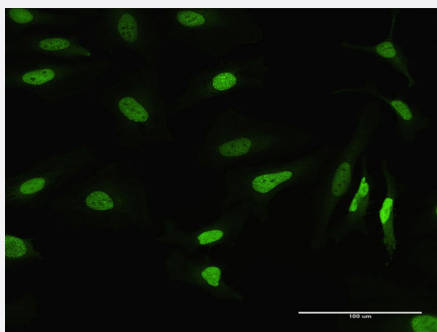
Lane 1: MSH2 transfected lysate(104.70 kDa).

Lane 2: Non-transfected lysate.



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between MSH2 and MSH6. HeLa cells were stained with anti-MSH2 rabbit purified polyclonal 1:1200 and anti-MSH6 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Immunofluorescence

Immunofluorescence of purified MaxPab antibody to MSH2 on HeLa cell.
[antibody concentration 10 ug/ml]

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human MSH2 protein.
Immunogen	MSH2 (NP_000242.1, 1 a.a. ~ 934 a.a) full-length human protein.
Sequence	MAVQPKETLQLESAAEVGFVRRFFQGMPEKPTTTVRLFDRGDFYTAHGEDALLAAREVFKTQGVI KYMGPAGAKNLQSVVLSKMNFSFVKDLLLVQRQYRVEVYKNRAGNKASKENDWYLAYKASPGN LSQFEDILFGNNDMSASIGVVGKMSAVDGGQRQVGVGYYDSIQRKLGCEFPDNDQFSNLEALLI QIGPKECVLPGETAGDMGKLRQIIQRGGILITERKKADFSTKDIYQDLNRLKGGKGEQMNSAVLP EMENQVAVSSLSAVIKFLELLSDDSNFGQFELTTDFDSQYMKLDIAAVRALNLFQGSVEDTTGSQ SLAALLNKCKTPQQRLVNQWIKQPLMDKNRIEERLNLVEAFVEDAELRQTLQEDLLRRFPDLNR LAKKFQRQAANLQDCYRLYQGINQLPNVIALEKHEGKHQKLLAVFVTPLTDLRSDFSQFQEMIE TTLDMDQVENHEFLVKPSFDPNLSELREIMNDLEKKMQSTLISAARDLGLDPGKQIKLDSSAQFG YYFRVTCKEEKVLRNNKNFSTVDIQKNGVKFTNSKL TSLNEEYTKNKTEYEEAQDANKENVISSGY VEPMQTLNDVLAQLDAVVSFAHVSNGAPVPYVRPAILEKGQGRILKASRHACVEVQDEIAFIPND VYFEKDKQMFHIITGPNMGGKSTYRQTGVVLMAGICFVPCESA EVSIVDCILARVGAGDSQLKG VSTFMAEMLETASILRSATKDSLIIIDELGRGTSTYDGFGLAWAISEYATKIGAFCMFATHFHELTAL ANQIPTVNNLHVLTALTTEETLTMLYQVKKGVCDQSFGI HVAELANFPKHVIECAKQKALELEEFQYI GESQGYDIMEPAAKKCYLEREQGEKIQEFLSKVKQMPFTEMSEENTIKLKQLKAEVIAKNNSFVN EISRIKVT
Host	Rabbit
Reactivity	Human
Interspecies Antigen Sequence	Mouse (93); Rat (92)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

MSH2 MaxPab rabbit polyclonal antibody. Western Blot analysis of MSH2 expression in Hela S3 NE.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of MSH2 expression in transfected 293T cell line ([H00004436-T01](#)) by MSH2 MaxPab polyclonal antibody.

Lane 1: MSH2 transfected lysate(104.70 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between MSH2 and MSH6. HeLa cells were stained with anti-MSH2 rabbit purified polyclonal 1:1200 and anti-MSH6 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

- Immunofluorescence

Immunofluorescence of purified MaxPab antibody to MSH2 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — MSH2

Entrez GeneID [4436](#)

GeneBank Accession# [NM_000251](#)

Protein Accession# [NP_000242.1](#)

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](#)