

# [KO Validated] MSH2 Rabbit mAb

Catalog No.: A22177 **KO Validated** **Recombinant**

## Basic Information

### Observed MW

105 kDa

### Calculated MW

105 kDa

### Category

Primary antibody

### Applications

WB, IHC-P, mIHC, ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC55799

## Background

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.

## Recommended Dilutions

<b>WB</b>	1:2000 - 1:20000
<b>IHC-P</b>	1:100 - 1:500
<b>mIHC</b>	1:200 - 1:800
<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Contact

☎	400-999-6126
✉	cn.market@abclonal.com.cn
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## Immunogen Information

### Gene ID

4436

### Swiss Prot

P43246

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

FCC1; COCA1; HNPCC; LCFS2; MSH-2; hMSH2; HNPCC1; LYNCH1; MMRCS2; H2

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

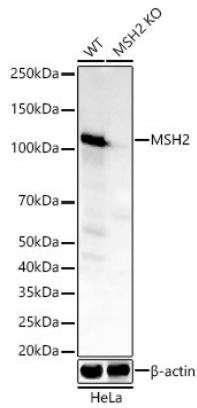
Affinity purification

### Storage

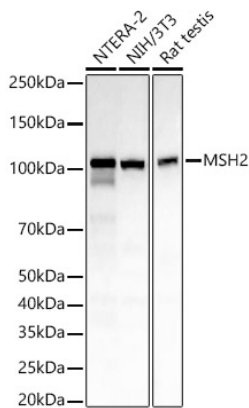
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

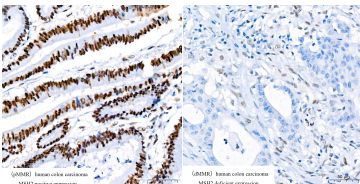
## Validation Data



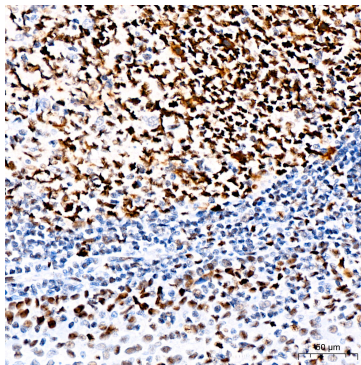
Western blot analysis of lysates from wild type (WT) and MSH2 knockout (KO) HeLa cells, using [KO Validated] MSH2 Rabbit mAb (A22177) at 1:20000 dilution.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 60s.



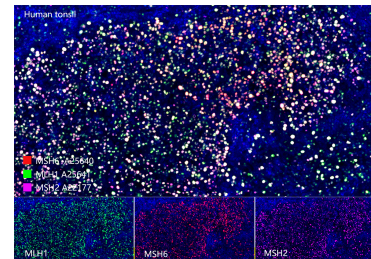
Western blot analysis of various lysates, using [KO Validated] MSH2 Rabbit mAb (A22177) at 1:20000 dilution.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 60s.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using [KO Validated] MSH2 Rabbit mAb (A22177) at dilution of 1:400 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.

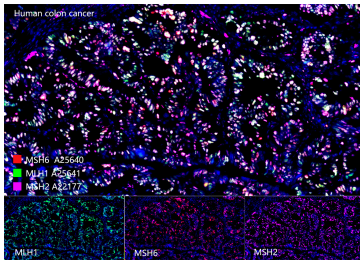


Immunohistochemistry analysis of paraffin-embedded Human tonsil using [KO Validated] MSH2 Rabbit mAb (A22177) at dilution of 1:400 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.

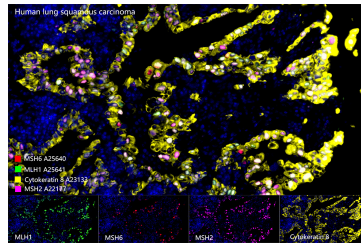


The multiplex IHC analysis on paraffin-embedded Human tonsil tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : [KO Validated] MLH1 Rabbit mAb (A25641, 1:100) with TSA-TYR-520 (Green), and [KO Validated] MSH6 Rabbit mAb (A25640, 1:1000) with TSA-TYR-570 (Red), and [KO Validated] MSH2 Rabbit mAb (A22177, 1:500) with TSA-TYR-480 (Magenta). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.

## Validation Data



The multiplex IHC analysis on paraffin-embedded Human colon cancer tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : [KO Validated] MLH1 Rabbit mAb (A25641, 1:100) with TSA-TYR-520 (Green), and [KO Validated] MSH6 Rabbit mAb (A25640, 1:1000) with TSA-TYR-570 (Red), and [KO Validated] MSH2 Rabbit mAb (A22177, 1:500) with TSA-TYR-480 (Magenta). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.



The multiplex IHC analysis on paraffin-embedded Human lung squamous carcinoma tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : [KO Validated] MLH1 Rabbit mAb (A25641, 1:100) with TSA-TYR-520 (Green), and [KO Validated] MSH6 Rabbit mAb (A25640, 1:1000) with TSA-TYR-570 (Red), and [KO Validated] MSH2 Rabbit mAb (A22177, 1:500) with TSA-TYR-620 (Magenta), and Cytokeratin 8 Rabbit mAb (A23133, 1:100) with TSA-TYR-690 (Yellow). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.