

For Research Use Only

# MSH2 Monoclonal antibody

Catalog Number: 60161-1-Ig

Featured Product

2 Publications



## Basic Information

<b>Catalog Number:</b> 60161-1-Ig	<b>GenBank Accession Number:</b> BC021566	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4436	<b>CloneNo.:</b> 2H5F5
<b>Source:</b> Mouse	<b>Full Name:</b> mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:20-1:200
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 105 kDa	
<b>Immunogen Catalog Number:</b> AG7835	<b>Observed MW:</b> 105 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

IHC, WB

### Species Specificity:

human

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : HeLa cells, COLO 320 cells, HCT 116 cells, HepG2 cells, HEK-293 cells

IHC : human colon cancer tissue,

## Background Information

MSH2, named for its homologous to the E.coli MutS gene, takes part in DNA mismatch repair(MMR) to maintain the stability of DNA. MSH2 contains a helix-turn-helix domain, which responds for binding to DNA. Also, MSH2 has a direct role in mutation avoidance and micro-satellite stability in cell.

## Notable Publications

Author	Pubmed ID	Journal	Application
Qijing Wu	34933913	Cancer Immunol Res	IHC
Mingyang Li	37914149	Transl Res	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

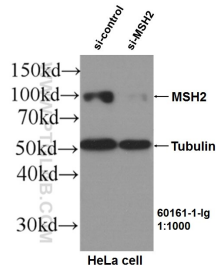
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

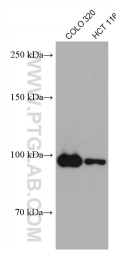
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

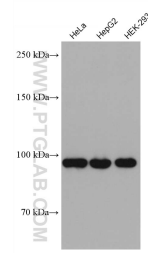
## Selected Validation Data



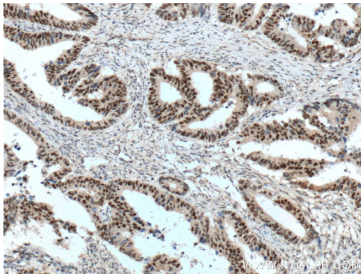
WB results of MSH2 (60161-1-Ig, 1:1000) antibody with si-Control and si-MSH2 transfected HeLa cells..



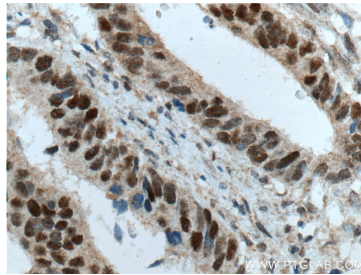
Various lysates were subjected to SDS PAGE followed by western blot with 60161-1-Ig (MSH2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 60161-1-Ig (MSH2 Antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 60161-1-Ig (MSH2 Antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).