

For Research Use Only

# MSH3 Polyclonal antibody

Catalog Number: 22393-1-AP

Featured Product

6 Publications



## Basic Information

### Catalog Number:

22393-1-AP

### Size:

150ul, Concentration: 650 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG18060

### GenBank Accession Number:

BC130434

### GeneID (NCBI):

4437

### UNIPROT ID:

P20585

### Full Name:

mutS homolog 3 (E. coli)

### Calculated MW:

1137 aa, 127 kDa

### Observed MW:

127 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB

### Species Specificity:

human

### Cited Species:

human, mouse

### Positive Controls:

WB : A549 cells, HEK-293 cells, HeLa cells

IP : HeLa cells,

IHC : human colon cancer tissue,

IF/ICC : HT-29 cells,

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

## Background Information

MSH3 is a DNA mismatch repair (MMR) gene that heterodimerizes with MSH2 to form MutS beta which binds to DNA mismatches thereby initiating DNA repair. It undergoes frequent somatic mutation in colorectal cancers (CRCs) with MMR deficiency. MSH3 mismatch repair protein regulates sensitivity to cytotoxic drugs and a histone deacetylase inhibitor in human colon carcinoma cells (PMID: 23724141, PMID:32671096).

## Notable Publications

Author	Pubmed ID	Journal	Application
Dazhang Bai	33949657	Hum Mol Genet	WB
Hui Zhang	33874956	Mol Cancer	WB
Gergely Rona	38458201	Mol Cell	WB

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

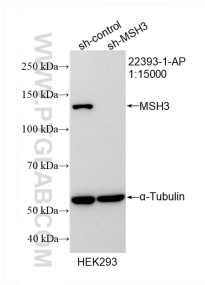
For technical support and original validation data for this product please contact:

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

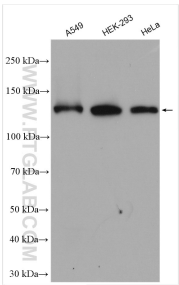
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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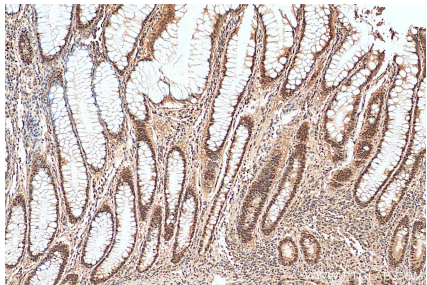
Selected Validation Data



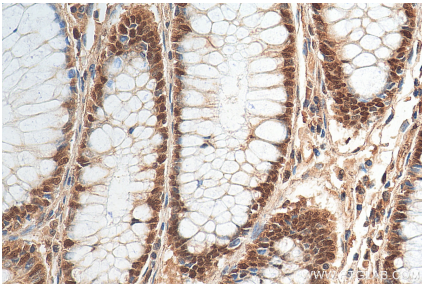
WB result of MSH3 antibody (22393-1-AP; 1:15000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MSH3 transfected HEK-293 cells.



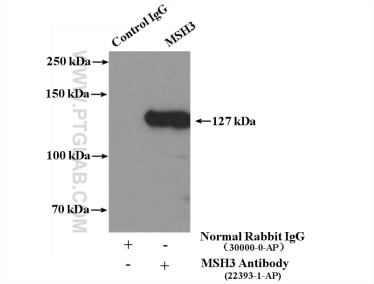
Various lysates were subjected to SDS PAGE followed by western blot with 22393-1-AP (MSH3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



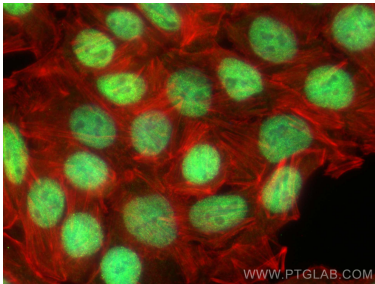
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 22393-1-AP (MSH3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 22393-1-AP (MSH3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-MSH3 (IP:22393-1-AP, 4ug; Detection:22393-1-AP 1:1000) with HeLa cells lysate 3600ug.



Immunofluorescent analysis of (4% PFA) fixed HT-29 cells using MSH3 antibody (22393-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).