

For Research Use Only

MSH3 Polyclonal antibody

Catalog Number: 22393-1-AP **6 Publications**



Basic Information

Catalog Number:

22393-1-AP

Size:

650 µg/ml

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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:50-1:500

Applications

Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

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 : A549 cells, HEK-293 cells, HeLa cells

IP : HeLa cells,

IHC : human colon cancer tissue,

IF : HT-29 cells,

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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

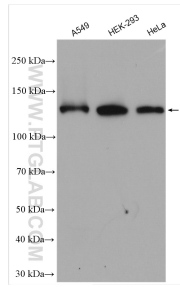
T: 4006900926

E: Proteintech-CN@ptglab.com

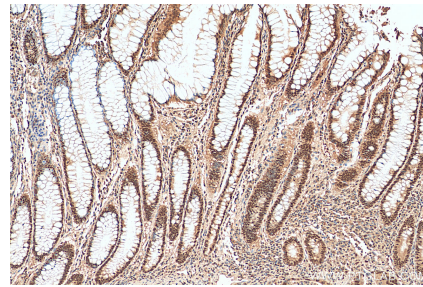
W: ptgcn.com

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

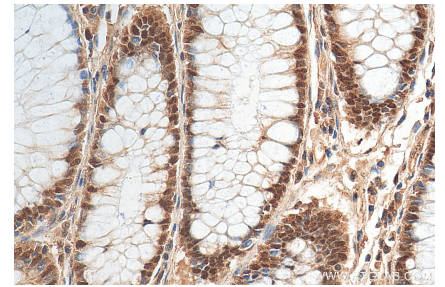
Selected Validation Data



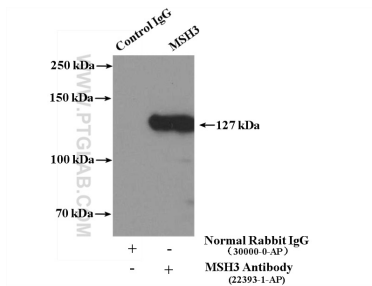
Various lysates were subjected to SDS PAGE followed by western blot with 22393-1-AP (MSH3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



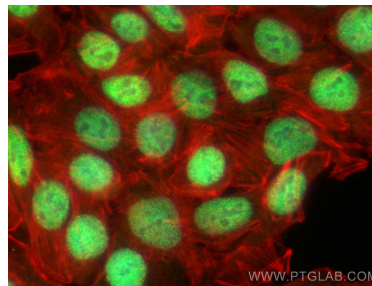
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 22393-1-AP (MSH3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).