

For Research Use Only

MSH2 Monoclonal antibody

Catalog Number: 60161-1-Ig

Featured Product

3 Publications



Basic Information

Catalog Number:

60161-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 530 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG7835

GenBank Accession Number:

BC021566

GeneID (NCBI):

4436

UNIPROT ID:

P43246

Full Name:

mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)

Calculated MW:

105 kDa

Observed MW:

105 kDa

Purification Method:

Protein G purification

CloneNo.:

2H5F5

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:20-1:200

IF/ICC 1:500-1:2000

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC

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, Ramos cells

IF/ICC : A431 cells,

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
Yuan Yuan He	38351129	Sci Rep	WB
Mingyang Li	37914149	Transl Res	WB
Qijing Wu	34933913	Cancer Immunol Res	IHC

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

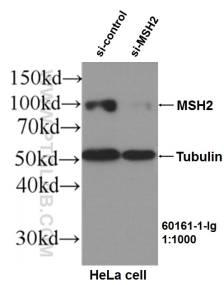
For technical support and original validation data for this product please contact:

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

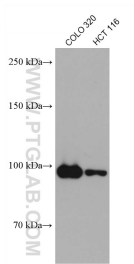
E: proteintech@ptglab.com
W: ptglab.com

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

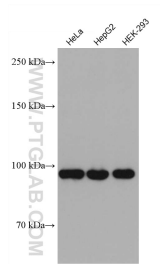
Selected Validation Data



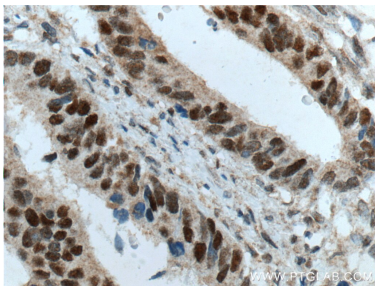
WB results of MSH2 (60161-1-Ig, 1:1000) antibody with si-Control and si-MSH2 transfected HeLa cells..



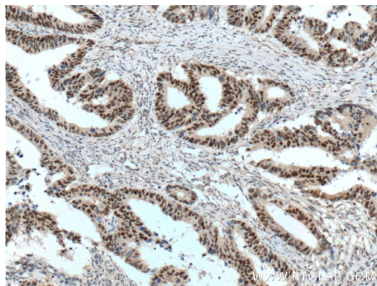
Various lysates were subjected to SDS PAGE followed by western blot with 60161-1-Ig (MSH2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



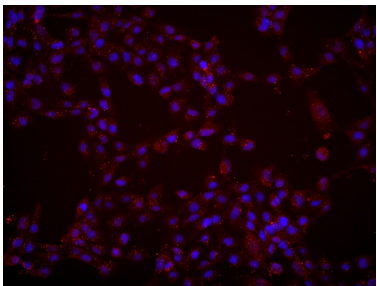
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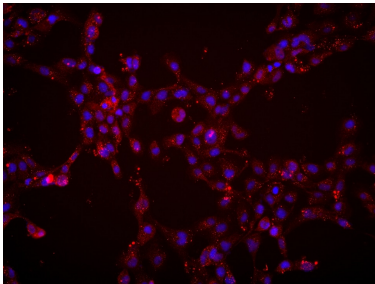
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 60161-1-Ig (MSH2 Antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



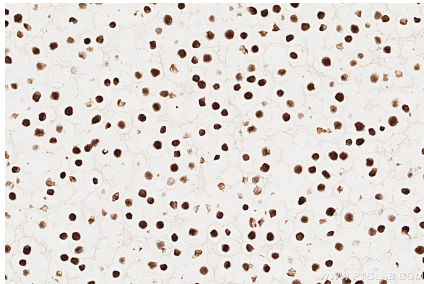
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 60161-1-Ig (MSH2 Antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using MSH2 antibody (60161-1-Ig, Clone: 2H5F5) at dilution of 1:2277 and Multi-rAb CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM005).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using MSH2 antibody (60161-1-Ig, Clone: 2H5F5) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM005).



Immunohistochemical analysis of paraffin-embedded Ramos cells slide using 60161-1-Ig (MSH2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).