

For Research Use Only

MSH6 Monoclonal antibody

Catalog Number: 66172-1-Ig

Featured Product

10 Publications



Basic Information

Catalog Number:

66172-1-Ig

Concentration:

1000 ug/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG12645

GenBank Accession Number:

BC004246

GeneID (NCBI):

2956

UNIPROT ID:

P52701

Full Name:

mutS homolog 6 (E. coli)

Calculated MW:

153 kDa

Observed MW:

160 kDa

Purification Method:

Protein A purification

CloneNo.:

2E10B2

Recommended Dilutions:

WB: 1:500-1:2000

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

IHC: 1:500-1:2000

IF/ICC: 1:500-1:2000

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse

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: HEK-293 cells, HepG2 cells, U2OS cells, A431 cells, HeLa cells, MCF-7 cells, K-562 cells

IP: HEK-293 cells,

IHC: human colon cancer tissue, Ramos cells

IF/ICC: U2OS cells,

FC (Intra): HEK-293 cells,

Background Information

MSH6, also named as DNA mismatch repair protein Msh6 or GTMBP, is a 1360 amino acid protein, which contains one PWWP domain and belongs to the DNA mismatch repair MutS family. MSH6 localizes in the nucleus and is a component of the post-replicative DNA mismatch repair system. Msh2 and Msh6 form a protein complex required to repair mismatches generated during DNA replication.

Notable Publications

Author	Pubmed ID	Journal	Application
Renming Fan	36594812	J Med Chem	WB
Xiangxiang Tao	29085502	Oncol Lett	IHC
Shujia Chen	38971490	Cancer Lett	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

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

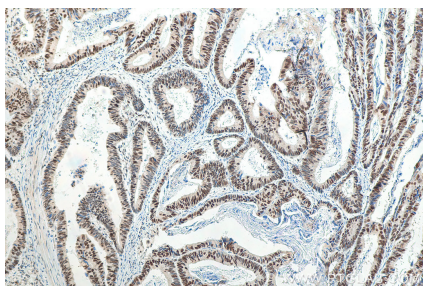
T: 4006900926

E: Proteintech-CN@ptglab.com

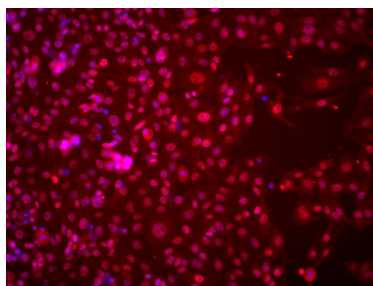
W: ptgcn.com

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

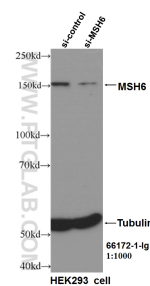
Selected Validation Data



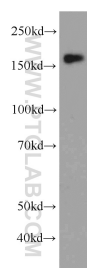
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66172-1-Ig (MSH6 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



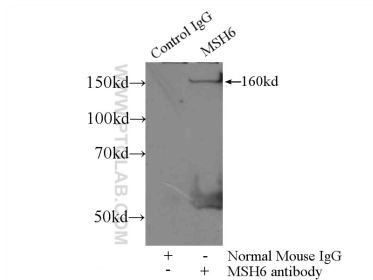
Immunofluorescent analysis of (4% PFA) fixed U2OS cells using MSH6 antibody (66172-1-Ig, Clone: 2E10B2) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



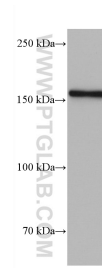
WB result of MSH6 antibody (66172-1-Ig, 1:1000) with si-Control and si-MSH6 transfected HEK293 cells.



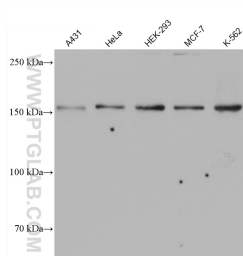
HEK-293 cells were subjected to SDS PAGE followed by western blot with 66172-1-Ig (MSH6 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



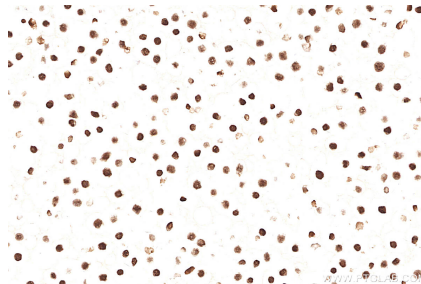
IP result of anti-MSH6 (IP:66172-1-Ig, 4ug; Detection:66172-1-Ig 1:600) with HEK-293 cells lysate 1800ug.



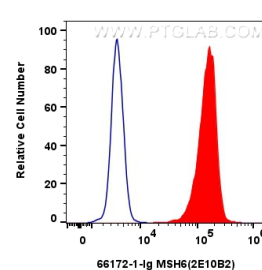
U2OS cells were subjected to SDS PAGE followed by western blot with 66172-1-Ig (MSH6 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 66172-1-Ig (MSH6 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded Ramos cells slide using 66172-1-Ig (MSH6 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ HEK-293 cells were intracellularly stained with 0.4 ug MSH6 Monoclonal antibody (66172-1-Ig, Clone:2E10B2) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1) (red), or 0.4 ug Mouse IgG2a isotype control Mouse McAb (66360-2-Ig, Clone: 11A1B2) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).