

For Research Use Only

MSH3 Recombinant antibody

Catalog Number: 82845-3-RR

Featured Product



Basic Information

Catalog Number:

82845-3-RR

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

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:

Protein A purification

CloneNo.:

1J23

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:750-1:3000

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human, rat

Positive Controls:

WB : HSC-T6 cells, HEK-293 cells, HEK-293 cells, HeLa cells, MOLT-4 cells

IF/ICC : U-251 cells, U2OS 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).

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

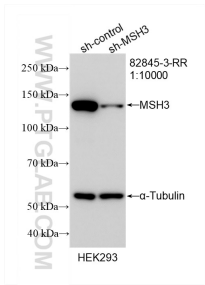
For technical support and original validation data for this product please contact:

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

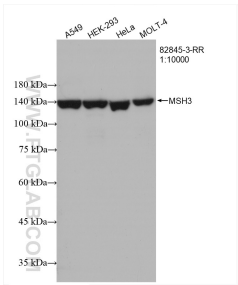
E: proteintech@ptglab.com
W: ptglab.com

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

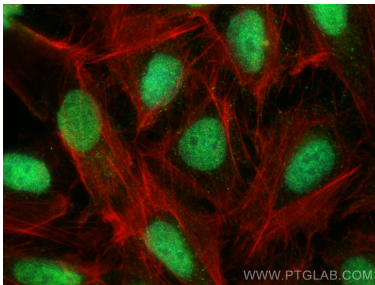
Selected Validation Data



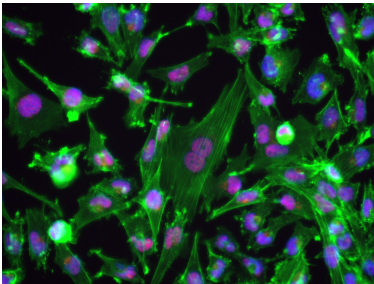
WB result of MSH3 antibody (82845-3-RR; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MSH3 transfected HEK-293 cells.



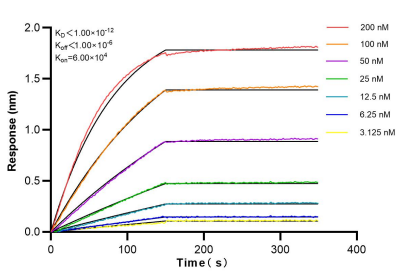
Various lysates were subjected to SDS PAGE followed by western blot with 82845-3-RR (MSH3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using MSH3 antibody (82845-3-RR, Clone: 1J23) at dilution of 1:1500 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed U-251 cells using MSH3 antibody (82845-3-RR, Clone: 1J23) at dilution of 1:1500 and CoraLite® 594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Biolayer interferometry (BLI) kinetic assays of 82845-3-RR against Human MSH3 were performed. The affinity constant is below 1 pM.