

For Research Use Only

# MSH2 Recombinant antibody

Catalog Number: 82775-1-RR



## Basic Information

<b>Catalog Number:</b> 82775-1-RR	<b>GenBank Accession Number:</b> BC021566	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4436	<b>CloneNo.:</b> 604
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P43246	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000
<b>Isotype:</b> IgG	<b>Full Name:</b> mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)	
<b>Immunogen Catalog Number:</b> AG7835	<b>Calculated MW:</b> 105 kDa	
	<b>Observed MW:</b> 100 kDa-105 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> HeLa cells, HepG2 cells, Caco-2 cells, A549 cells, HCT 116 cells
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> human colon tissue, human colon cancer, human tonsillitis tissue

## 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.

## Storage

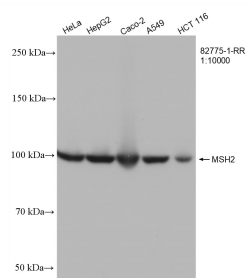
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

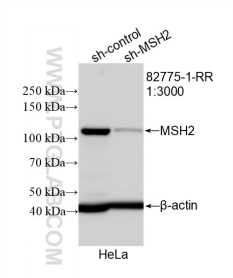
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

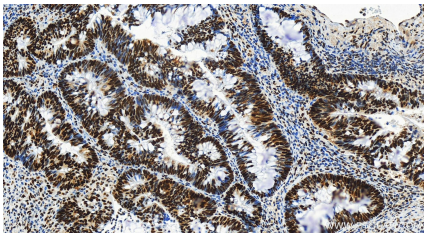
Selected Validation Data



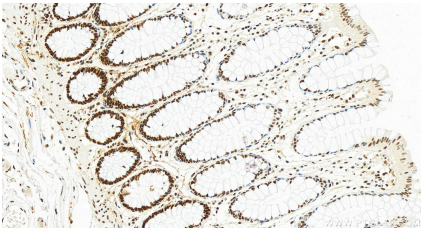
Various lysates were subjected to SDS PAGE followed by western blot with 82775-1-RR (MSH2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of MSH2 antibody (82775-1-RR; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MSH2 transfected HeLa cells.



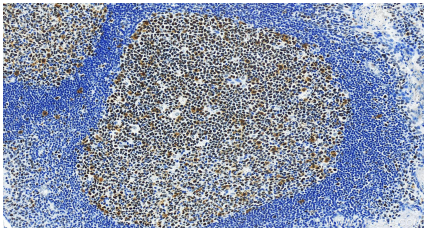
Immunohistochemical analysis of paraffin-embedded human colon cancer slide using 82775-1-RR (MSH2 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



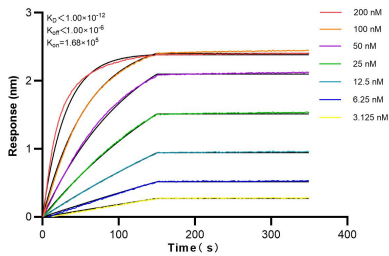
Immunohistochemical analysis of paraffin-embedded human normal colon slide using 82775-1-RR (MSH2 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 82775-1-RR (MSH2 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 82775-1-RR (MSH2 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 82775-1-RR against Human MSH2 were performed. The affinity constant is below 1 pM.