

For Research Use Only

# MUTYH Polyclonal antibody

Catalog Number: 19650-1-AP

Featured Product

3 Publications



## Basic Information

### Catalog Number:

19650-1-AP

### Size:

650 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG7526

### GenBank Accession Number:

BC003178

### GeneID (NCBI):

4595

### UNIPROT ID:

Q9UIF7

### Full Name:

mutY homolog (E. coli)

### Calculated MW:

60 kDa

### Observed MW:

53-64 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

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

IHC 1:50-1:500

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### 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, Jurkat cells, K-562 cells, mouse thymus tissue, Raji cells

**IP** : HeLa cells,

**IHC** : mouse liver tissue, human kidney tissue, human colon cancer tissue

## Background Information

MUTYH (MutY homolog) is also named as MYH and belongs to the Nth/MutY family. The gene encodes an A/G-specific adenine DNA glycosylase that it is involved in oxidative DNA damage repair and initiates repair of A\*oxoG to C\*G by removing the inappropriately paired adenine base from the DNA backbone. Possesses both adenine and 2-OH-A DNA glycosylase activities (PMID:10684930). Defects in MUTYH are a cause of familial adenomatous polyposis type 2 (FAP2) and gastric cancer (GASC). It has 6 isoforms produced by alternative splicing with the molecular weight between 57 kDa and 60 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yanxia Guo	31578574	Oncol Rep	WB
Wenjuan Zhou	31164636	Cell Death Dis	WB
Yuri Mizuno	34970419	Oxid Med Cell Longev	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:

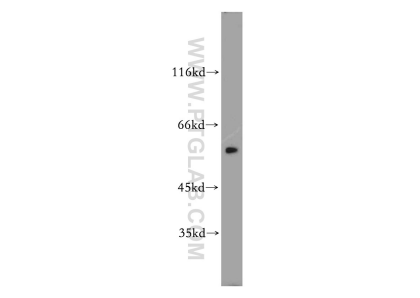
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

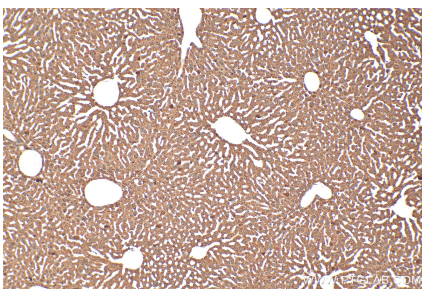
W: [ptgcn.com](http://ptgcn.com)

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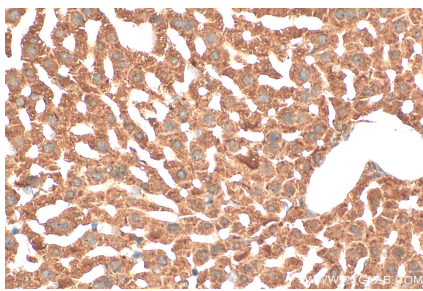
Selected Validation Data



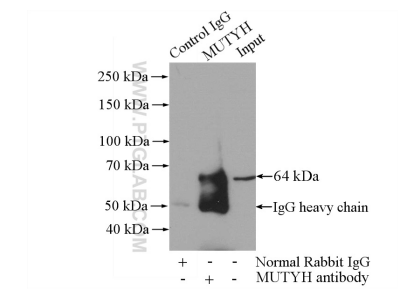
HeLa cells were subjected to SDS PAGE followed by western blot with 19650-1-AP (MUTYH antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 19650-1-AP (MUTYH 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 mouse liver tissue slide using 19650-1-AP (MUTYH antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-MUTYH (IP:19650-1-AP, 4ug; Detection:19650-1-AP 1:500) with HeLa cells lysate 3440ug.