

For Research Use Only

MUTYH Polyclonal antibody

Catalog Number: 19650-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number:

19650-1-AP

Size:

150ul, Concentration: 650 ug/ml by Nanodrop and 280 ug/ml by Bradford method using BSA as the standard;

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, 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

*** 20ul sizes contain 0.1% BSA

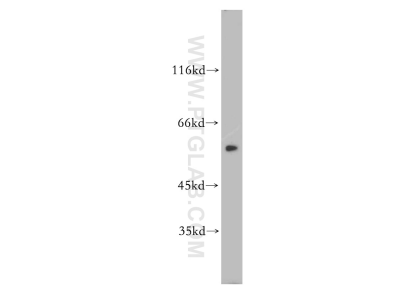
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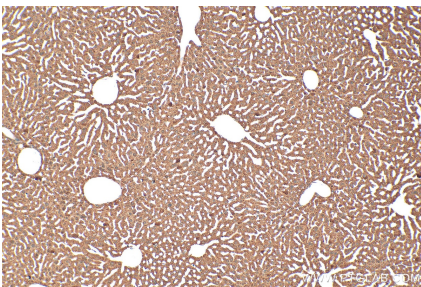
E: proteintech@ptglab.com
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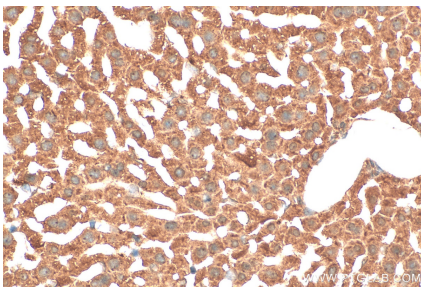
Selected Validation Data



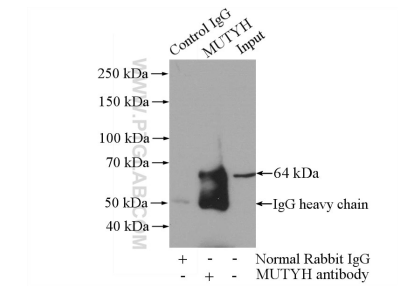
HeLa cells were subjected to SDS PAGE followed by western blot with 19650-1-AP (MUTYH antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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.